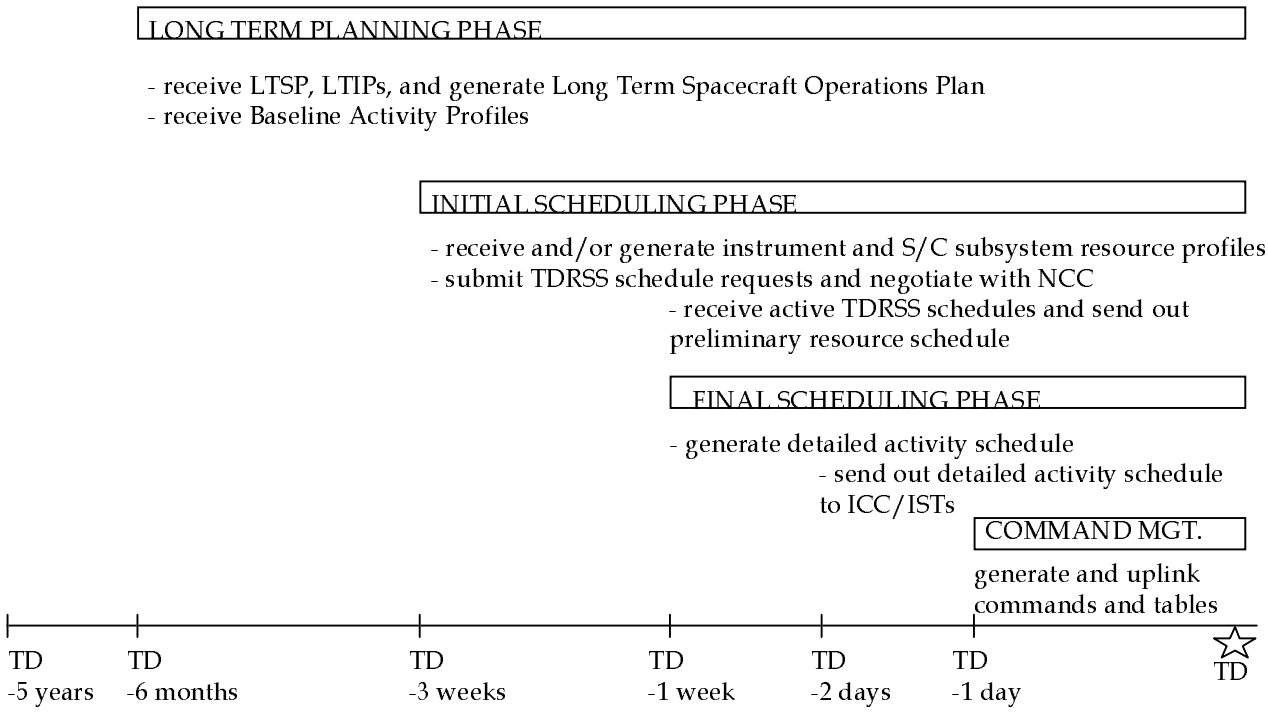
Planning and Scheduling Confidence Test - EOC3

Background Information:

Planning and scheduling activities are performed in four major phases: long term planning, initial scheduling, final scheduling, and command management. The figure below shows an overall timeline delineating these four phases based on a target day. Long term mission planning for the spacecraft and instruments begins up to five years in advance of the planned activities and includes generating or updating the Long Term Science Plan (LTSP), Long Term Instrument Plan (LTIP), and Long Term Spacecraft Operations Plan. Initial scheduling activities, which begin three weeks in advance of the target day, include securing the required SN resources via NCC and allocating constrained spacecraft resources to the instruments and spacecraft subsystems. Final scheduling begins one week before the target day and involves producing the detailed activity schedule that is used for command generation. Command management involves translating the detailed activity schedule into command loads and ground scripts. Command management activities occur one or two days prior to the target day. The test cases in this package will verify that the EOC can perform critical activities associated with the four phases of planning and scheduling.



Test Objectives:

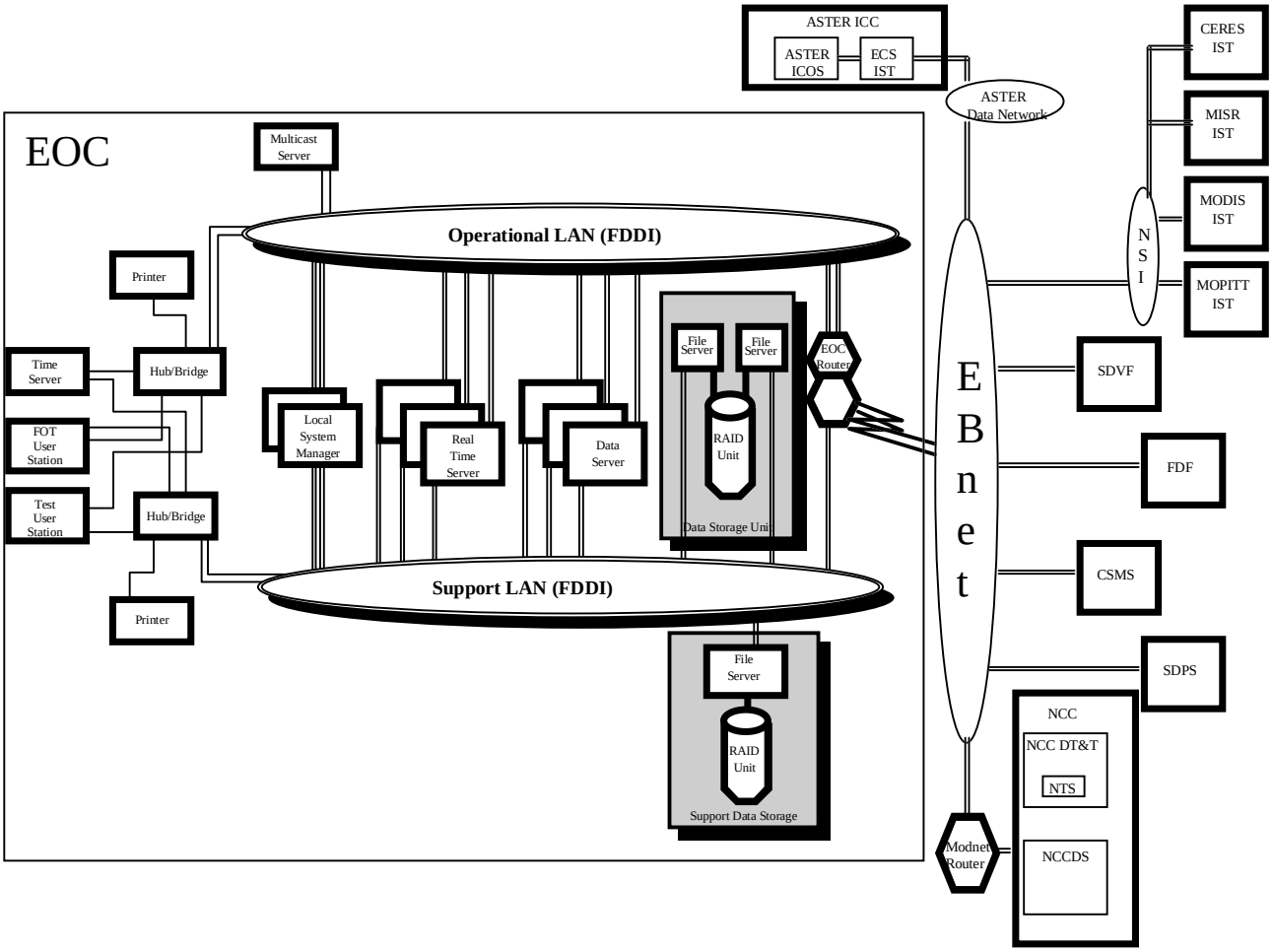
The objective of this test is to verify that the EOC can produce an integrated schedule of activities for instruments and spacecraft subsystems, and generate the ground scripts and command loads necessary to implement the scheduled activities. The test will verify that the EOC can perform critical functions during the following phases of the planning and scheduling process:

- Long Term Planning
- Initial Scheduling
- Final Scheduling

- Command Management

Test Configuration:

Hardware and software configurations at each ECS site are managed and tracked by the M&O organization at that site. The most current system configuration will be obtained prior to the start of testing and noted on the execution cover sheet.



Participants and Support Requirements:

Participants: FOT, I&T Test Conductor

Equipment and Software:

Hardware:

- EOC User Workstation
- EOC Data Server
- EOC Data Storage Unit

Software:

- EOC Planning and Scheduling Subsystem
- EOC Command Management Subsystem
- EOC Data Management Subsystem

EOC User Interface Subsystem

Test Data:

Description/Characteristics	Source	File/Script Name & Location
Instrument activity definitions	ISTs	Currently defining instrument activities until IOT input is available
Instrument Baseline Activity Profiles (BAPs) (one each for CERES, MISR, MODIS, and MOPITT)	ISTs	Currently defining instrument BAPs until IOT input is available
ASTER Short Term Schedules (STSs), One Day Schedules (ODSs)	ASTER IST	Release A: ASTER_STS_1999175001.txt ASTER_STS_1999175002.txt ASTER_STA_1999175003.txt ASTER_ODS_1999175004.txt ASTER_ODS_1999175005.txt ASTER_ODA_1999175006.txt (files reside in the /fos/test/am1/data/PAS directory)
Instrument microprocessor load contents files	ISTs	Release A: AM1_MPR_MIS_BUT_8_SARA.cnt AM1_MPR_MIS_CHECK_SUM_SAMPLE_SARA.cnt (files reside in the /fos/test/am1/loadcontents directory)
Relative Time Sequence load contents files (ascii format)	EOC	AM1_RTS_050_test1 AM1_RTS_050_test2 AM1_RTS_050_test3 (files reside in the /home/ivvtest5/sarastuff/formalrun/RTSfiles directory)

EOC3.1 Long Term Planning

Description: This test case verifies that the EOC can perform long term planning activities. The EOC will receive the LTSP from the project scientist and the IWG via the CSMS MSS. The EOC will also receive the LTIP from each PI/TL and project scientist via the CSMS MSS. The EOC will ingest FDF orbit products and make them available to the SDPS and the ISTs. Activities for the ASTER, CERES, MISR, MODIS, and MOPITT instruments will be defined via the ISTs. Activities for spacecraft subsystems will be defined via the EOC. BAPs for the CERES, MISR, MODIS, and MOPITT instruments and spacecraft subsystems will be defined via the ISTs and EOC.

Verified Requirements:
EOC-2030#A
EOC-2070#A
EOC-2170#A
EOC-2180#A
EOC-2200#A
EOC-2210#A
EOC-2250#A
EOC-2270#A
EOC-2272#A
EOC-2460#A
EOC-2480#A
EOC-2482#A
EOC-2020#A

Procedures:

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
1.001	I&T	Verify that all participants are configured for test execution	3.1 CSMS, FDF, SDPS, ECS IST, US ISTs3.2 SDPS, ECS IST, US ISTs, NCC3.3 ECS IST, US ISTs, NCC3.4 ECS IST, US ISTs, SDVF	Release B		4/9/97
1.002	EOC	If the Data Server (DS) and Real Time Server (RTS) are running, skip to step 21 to start a User Work Station (UWS).				4/9/97
1.003	EOC	Log onto an EOC console (msseoc2) as IVVTEST. Enter password.	UNIX Terminal window(s) open.Preferably bring up the Data Server and Real Time Server on a console that will not be used as a user workstation during the test.Note: Startup and shutdown procedures can be found in the Operations Tools Manual page 4-3.Use of msseoc2 is for consistency; operationally it will be used for LSM not as a Userstation.			4/9/97
1.004	EOC	Open SUN workstation room 2 (of 4). Click on button labeled Two.	UNIX Terminal window(s) open.Note: Use of 2nd & 3rd rooms are for organizational purposes only, it is not a required configuration.	Open a UNIX terminal window if none open.		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
1.005	EOC	Bring up the FOS Homepage on Netscape: netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape for a bookmark. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			4/9/97
1.006	EOC	Verify no endpoints exist:Click on Nameserver Database Click on Clear FormClick on Submit.	"Total matches = 0".Note: If any endpoints exist watch for live processes/endpoints on the Data Server, Real Time Server, and on User Stations in the following steps. They must all be removed/killed prior to system startup.			4/9/97
1.007	EOC	Open SUN workstation room 3 (of 4). Click on button labeled Three.	UNIX Terminal window(s) open.Note: Use of 2nd & 3rd rooms are for organizational purposes only, it is not a required configuration. Also, Data Server and Real Time Server may be started from different consoles.	Open two UNIX terminal windows if none open.		4/9/97
1.008	DS	Remote login to the Data Server (foseoc7):rlogin foseoc7enter your "password" (used in step 1)	Successful login to Data Server.			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		(or cd /fos/test/am1/scripts/setup) ps -ef	owner. Note: "ps -ef" truncates the process path/name. Use "ps -ax" to see process name			
1.010	DS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill -USR1 "pid" for each active process, then use kill -9 "pid" for each undesirable process. Type ps -ef again to verify.	Notes: "kill -USR1" saves data created since the Data Server was brought up. Use "kill -9" only after "kill -USR" on the Data Server or Real Time Server; or data may be lost.The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97
1.011	RTS	From the 2nd UNIX window in room 3, remote login to the Real Time Server (foseoc6):rlogin foseoc6enter your "password" (same as in step 1)	Successful login to Real Time Server.			4/9/97
1.012	RTS	Change directory and check for live processes.test (or cd /fos/test/am1/scripts/setup) ps -ef	Current processes will be displayed along with owner and process id.			4/9/97
1.013	RTS	Kill all undesirable processes - Processes with a /fos/test/Am1/bin/...				4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		prefix Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill -USR1 "pid" for each active process, then use kill -9 "pid" for each undesirable process.Type ps -ef again to verify.				
1.014	DS	At the Data Server (foseoc7), source the A2_DataServerStartup shell script from directory: /fos/test/am1/scripts/setup.source A2_DataServerStartup	The script will take 1- 5 minutes to complete.			4/9/97
1.015	DS	Observe in the UNIX window: "Successful installation of signal handler FpLqSigHand", and repeating "Waiting for activity"	If this message is not displayed, first wait a little longer, while waiting check the number of processes on the Data Server via netscape (next step). Most likely cause of failure is the presence of processes/endpoints prior to startup of Data Server. If unsuccessful startup, type MyKill, in Data Server's UNIX window, recheck for processes on all servers, and restart.			4/9/97
1.016	EOC	From Netscape in SUN workstation room 2, verify	The number of endpoints found is 14.Using "ps -ax"			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		that 14 endpoints are now found by submitting a blank form.BackSubmit	18 processes are active.If the number of endpoints does not equal 14, be sure startup has completed, if so, use MyKill to clean out all processes. Restart from step 4.			
1.017	RTS	At the Real Time Server (foseoc6) in SUN workstation room 3, source the A2_RealTimeServerStartup shell script from directory: /fos/test/am1/scripts/setup.source A2_RealTimeServerStartup	The script will take 2- 5 minutes to complete.			4/9/97
1.018	RTS	Observe in the UNIX window: "Creating a ptp coupler"	Note: The DECOM messages will appear several times, wait until they appear on two consecutive lines.There should not be any 'FORMAT Problem: xxx - socket error'. This is an indication that endpoints existed prior to startup.			4/9/97
1.019	EOC	From Netscape in the SUN workstation room 2, verify that 48 endpoints are now found by submiting a blank form.BackSubmit	The number of endpoints found is 49.If the number of endpoints does not equal 49, be sure startup has completed, if so, use MyKill to clean out all Real Time Server (RTS)			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
			processes. Use Netscape with "foseoc6" in the "Entry ID" field to verify 0 endpoints on RTS. Use "ps -ef" to check for undesirable processes. Restart RTS.			
1.020	EOC	Leave Data Server and Real Time Server windows open to view statuses.				4/9/97
1.021	EOC	If the console will be used as a User workstation, close Netscape.	Warning: Netscape and the Event_Display window can not be open at the same time (12/05/96).			4/9/97
1.022	UWS	Log onto an EOC User Work Station (preferably non-msseoc2). Enter your user name.Enter your password.	UNIX Terminal window(s) open.Note: The User station can be brought up at the same time as the Real Time Server. However this makes the endpoint count via Netscape a bit more difficult for use to double-check proper startup. Patience is a virtue.			4/9/97
1.023	UWS	Change directory and check for live processes.test (or cd /fos/test/am1/scripts/setup) ps -ax	Current processes will be displayed along with owner. There should be no undesirable processes. If so, run MyKill as owner of processes. 'Kill -9' is a last resort.Use "ps -ax" on SUN.			4/9/97
1.024	UWS	Source the	The script will take 3 - 5			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		A2_UserStationStartup shell script from directory: /fos/test/am1/scripts/setup. source A2_UserStationStartup	minutes to complete.The following six planning and scheduling windows will open: -Load Generator -Activity Definer -BAP Definer -Load_Manager -EOS Timeline -General Scheduler.A Control Window will open last.Netscape endpoint count at this point is 57.			
1.025	UWS	Iconize the 6 planning and scheduling windows.	If there are not 6 planning and scheduling icons and the Control Window, first wait a little longer; while waiting check the number of processes on the user station via netscape (enter console name in "Entry ID" field. Correct number of user station endpoints is 8)If unsuccessful startup, type MyKill, in user Station's UNIX window, kill undesirable processes, and restart user station only. If still unsuccessful call for help, you'll probably perform a complete shutdown and restart!			4/9/97
1.026	UWS	Bring up Event_Display window. Click on "Tools..." button in Control	Event_Display may take a few minutes to appear.			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		Window, select Event_Display, and OK.				
1.027	UWS	Issue the ECL directive to connect to string 100: STRING CONNECT STRING=100 TLMTYPE=ALL CONFIG=MIRROR	Event message: "Successfully connected to String 100."Approximately a 7 minute wait.			4/9/97
1.028	UWS	From a UNIX window, different from the window used for User startup, run the SI&T userstation configuration recording script: /home/ivvtest3/scripts/tconfig.scr	This can be done while waiting for the string to connect!Creates a file called testconfig.			4/9/97
1.029	UWS	Record the system configuration on the execution cover sheet.	System configuration recorded (while waiting for the string to connect).			4/9/97
1.030	UWS	Enable telemetry data archiving. Note: Release A: Archiving is already enabled. Release B: The ECL directive ARCHIVE will control the archiving modes: ARCHIVE TLM =ENABLE <tlm TYPE>	For Release A, no event message is expected. For Release B, an event message stating that telemetry archiving is enabled.			4/9/97
2.001	EOC/ CSMS	Verify the LTSP from the CSMS MSS has been received and/or can be accessed	The LTSP resides in the appropriate directory	Release B		4/9/97
2.002	EOC/ CSMS	Verify an LTIP from the CSMS MSS has been	The LTIPs reside in the appropriate directory	Release B		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		received and/or can be accessed for each instrument				
2.003	EOC/ FDF	Verify that all FDF products have been ingested	The FDF products reside in the appropriate directory	Release B- list of necessary FDF products to verify will be included in Test Data section		4/9/97
2.004	EOC/ SDPS/ ISTs	Verify FDF orbital products are made available to SDPS and ISTs	The FDF products transferred	Release B		4/9/97
2.005	EOC/ ISTs	Using the General Scheduler window, verify instrument activities have been defined by the ISTs: verify activities for each instrument are displayed in the Activities section of the General Scheduler window	Activities are displayed which incorporate commands, relative times for the commands, modifications to command parameters, and mode transitions	Release B		4/9/97
2.006	EOC	Using the Activity Definer window, define the following instrument activities: EOC3_ASTER_ACT_1_FR: ATC: AST_TURN_ON_C_TDP Start - 00:00:05 ATC: AST_ENABLE_SVH Start +00:00:10 GND: AST_TURN_ON_MPS Stop - 00:00:10 GND:	Activities are defined which incorporate ground and ATC commands, relative times for the commands, modifications to command parameters, mode transitions, ECL directives, procedures, and complex activities	Use Steps 8-27 to use the Activity Definer window		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		AST_TURN_OFF_C_TDP Stop +00:00:05 EOC3_CERESF_ACT_1_ FR: ATC: CEF_TURN_ON_OPS_A Start - 00:05:00 ATC: CEF_TURN_OFF_OPS_A Start +00:03:00 ATC: CEF_TURN_ON_SURV_ A Stop - 00:03:00 ATC: CEF_TURN_OFF_SURV_ A Stop +00:05:00 Mode Transition: Standby Start +00:00:30 EOC3_CERESF_ACT_2_ FR: ATC: CEF_TURN_ON_OPS_A Start - 00:10:00 ATC: CEF_TURN_OFF_OPS_A Start +00:03:00 ATC: CEF_TURN_ON_SURV_ A Stop - 00:03:00 ATC: CEF_TURN_OFF_SURV_ A Stop +00:10:00				

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		EOC3_MISR_ACT_1_FR: GND: MIS_TURN_ON_INSTR Start - 00:01:00 GND: MIS_OPEN_COVER Start - 00:02:00 GND: MIS_CLOSE_COVER Stop +00:02:00 GND: MIS_USE_IMOK Stop +00:01:00 ECL Directive: WAIT Start +00:05:00 EOC3_MODIS_ACT_1_FR: ATC: MOD_TURN_ON_BBB Start - 00:00:00 (will change to Start +00:00:00 in the Selected Commands portion of the Commands window) ATC: MOD_TURN_ON_BBA Start +00:01:00 GND: MOD_MOVE_DR_NAD Stop - 00:01:00 GND: MOD_TURN_ON_CPB Stop				

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		+00:00:00 Mode Transition: Science Day Start - 00:05:00 ECL Directive: WAIT Stop -00:00:30 Complex Activity: EOC_CERESF_ACT_1_FR Start +00:10:00 Procedure: proc1 Start +00:05:00 Remove complex activity: EOC_CERESF_ACT_1_FR (because activities containing complex activities cannot be scheduled until Release B)EOC3_MOPITT_ACT_1_FR: ATC: MOP_ENABLE_LAUNCH_A Start - 00:00:30 ATC: MOP_RESET_COMPUTER Start - 00:00:30 ATC: MOP_SELECT_PROM_A Start - 00:00:30 ATC: MOP_SET_RD_SPARE Start - 00:00:30 ATC:				

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		MOP_TURN_ON_MPSU_A Start - 00:00:30 ATC: MOP_TURN_OFF_MPSU_A Start - 00:00:30 ATC: MOP_TURN_ON_SIDE_B Start - 00:00:30 ATC: MOP_TURN_OFF_SIDE_B Start - 00:00:30 GND: MOP_TURN_ON_SPSU_B Stop +00:00:00 GND: MOP_TURN_OFF_SPSU_B Stop +00:00:10 GND: MOP_TURN_ON_MPSU_A Stop +00:00:20 GND: MOP_TURN_OFF_MPSU_A Stop +00:00:30 GND: MOP_TURN_ON_SIDE_A Stop +00:00:40 GND: MOP_TURN_OFF_SIDE_A Stop +00:00:50 GND: MOP_TURN_ON_SPSU_A Stop +00:01:00 GND:				

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		MOP_TURN_OFF_SPSU_A Stop +00:01:10				
2.007	EOC	Define the following spacecraft subsystem activities: EOC3_CDH_ACT_1_FR: ATC: CDH_ENABLE_CT1RCSR1 Start - 00:00:05 ATC: CDH_GET_CT1_RAM_CRC Start +00:00:10 Edit parameters STARTING ADDRESS=50 WORD_COUNT=50000 CRC_VALUE=65536 GND: CDH_ENABLE_CT1_OK Stop - 00:00:10 GND: CDH_TURN_OFF_SCC1 Stop +00:00:05 EOC3_COM_ACT_1_FR: ATC: COM_SELECT_HGA_TX Start - 00:05:00 ATC: COM_SELECT_HGA_TX	Activities are defined which incorporate ground and ATC commands, relative times for the commands, modifications to command parameters, mode transitions, ECL directives, procedures, and complex activities	Use Steps 8-27 to use the Activity Definer window		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		1 Start +00:03:00 ATC: COM_STEP_HGA_AZ Stop - 00:03:00 ATC: COM_TURN_ON_SSPA1 Stop +00:05:00 EOC3_EAS_ACT_1_FR: GND: EAS_ENABLE_NEA_BUSB Start - 00:01:00 GND: EAS_ARM_HGA_BOX1A Start - 00:02:00 GND: EAS_FIRE_HGA_BOX1A Stop +00:02:00 GND: EAS_DISABLE_NEA_BUSB Stop +00:01:00 ECL Directive: WAIT Start +00:05:00 EOC3_EPS_ACT_1_FR: ATC: EPS_SELECT_ADEA_FWD Start - 00:00:00 (will change to Start +00:00:00 in the Selected Commands portion of the Commands window) ATC:				

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		EPS_SET_ADEA_RATEADJ Start +00:01:00 Edit parameter ADJUSTMENT=-300 (will get error message) then ADJUSTMENT=-100 GND: EPS_ENABLE_ADEB_SAFE Stop -00:01:00 GND: EPS_TURN_ON_CMDDECB Stop +00:00:00 ECL Directive: WAIT Stop -00:00:30 Complex Activity: EOC_EAS_ACT_1_FR Start +00:10:00 Remove complex activity: EOC_EAS_ACT_1_FR (because activities containing complex activities cannot be scheduled until Release B) Procedure: proc2 Start +00:05:00EOC3_GNC_ACT_1_FR: ATC: GNC_ENABLE_CSM_TO_A Start				

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		+00:00:30 ATC: GNC_TURN_ON_ACEA Start +00:00:30 ATC: GNC_TURN_ON_ACEA_SM Start +00:00:30 ATC: GNC_SELECT_SHPB_MODE Start +00:00:30 ATC: GNC_RESET_IRUPOS_B Start +00:00:30 ATC: GNC_SET_TAM_X_BIA Start +00:00:30 ATC: GNC_SET_TAM_Y_BIA Start +00:00:30 ATC: GNC_SET_TAM_Z_BIA Start +00:00:30 GND: GNC_TURN_ON_ZMTRB Stop - 00:01:10 GND: GNC_ENABLE_TAM2A Stop - 00:01:00 GND: GNC_TURN_ON_IRU_A Stop - 00:00:50 GND: GNC_TURN_OFF_IRU_A Stop -				

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		00:00:40 GND: GNC_DUMP_ST1BLOCK Stop - 00:00:30 GND: GNC_SET_TORQ_X_BIB Stop - 00:00:20 GND: GNC_SET_TORQ_Y_BIB Stop - 00:00:10 GND: GNC_SET_TORQ_Z_BIB Stop - 00:00:00 (will change to Stop +00:00:00 in the Selected Commands portion of the Commands window)EOC3_PMS_ACT_1_FR: ATC: PMS_TURN_ON_EPC1 Start +01:00:00 ATC: PMS_TURN_OFF_EPC1 Stop - 01:00:00EOC3_TCS_ACT_1_FR: GND: TCS_SET_PBATPWMB Start +00:30:00 GND: TCS_ENABLE_BBATHG1A Stop - 00:30:00				
2.008	EOC	Define a new activity:click on the Activity Definer File	New window is displayed			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		menu and select New				
2.009	EOC	Enter EOC3_RESOURCE_ACT _# _FR for the activity name, select AM1 RESOURCE as the resource, and click OK	New window is no longer displayed, activity name and resource name appear in the window			4/9/97
2.010	EOC	Incorporate commands into the activity:click on the Activity Definer Edit menu and select Commands	Commands window is displayed			4/9/97
2.011	EOC	Select each command from the Available Commands list, enter the offset time, and click Add	The commands are displayed in the Selected Commands portion of the Commands window			4/9/97
2.012	EOC	Click Apply and then click OK	Commands window is no longer displayed, commands appear in the Items portion of the Activity Definer window			4/9/97
2.013	EOC	Edit command parameters:click on the Activity Definer Edit menu and select Parameters	Parameters window is displayed			4/9/97
2.014	EOC	Select the command from the Commands list, click on the parameter from the Parameters list, enter a valid value, and click Apply and OK	Parameters window is no longer displayed, command parameters are displayed in the Items portion of the Activity Definer window			4/9/97
2.015	EOC	Edit mode transitions: click on the Activity Definer Edit	Modes window is displayed			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		menu and select Modes				
2.016	EOC	Select the mode from the Available Modes list, enter offset time, and click Add, Apply, and OK	Modes window is no longer displayed, mode transitions appear in the Items portion of the Activity Definer window			4/9/97
2.017	EOC	Edit complex activities: click on the Activity Definer Edit menu and select Complex Activities	Complex Activities window is displayed			4/9/97
2.018	EOC	Select the complex activity from the Available Activities list, enter offset time, and click Add, Apply, and OK	Complex Activities window is no longer displayed, complex activities appear in the Items portion of the Activity Definer window			4/9/97
2.019	EOC	Edit ECL directives: click on the Activity Definer Edit menu and select ECL Directives	ECL Directives window is displayed			4/9/97
2.020	EOC	Enter the ECL directive in the ECL Command Language Editor, enter the offset time, and click Add, Apply, and OK	ECL Directives window is no longer displayed, ECL directives appear in the Items portion of the Activity Definer window			4/9/97
2.021	EOC	Edit command procedures: click on the Activity Definer Edit menu and select Command Procedures	Command Procedures window is displayed			4/9/97
2.022	EOC	Select the command procedure from the Available Command	Command Procedures window is no longer displayed, command			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		Procedures list, enter offset time, and click Add, Apply, and OK	procedures appear in the Items portion of the Activity Definer window			
2.023	EOC	Click on the Activity Description box and enter an activity description: "This activity is defined for the AM1 RESOURCE resource as part of the EOC3 (dry/formal) run test.	Activity description is displayed in the box			4/9/97
2.024	EOC	Delete complex activities: click on the Activity Definer Edit menu and select Complex Activities	Complex Activities window is displayed			4/9/97
2.025	EOC	Select the activity to delete in the Selected Activities portion of the window and click Delete and OK	Complex Activities window is no longer displayed, complex activity no longer appears in the Items portion of the Activity Definer window			4/9/97
2.026	EOC	Select Save from the Activity Definer File menu item	The activity is saved			4/9/97
2.027	EOC	Select Close from the Activity Definer File menu item	The activity is closed			4/9/97
2.028	EOC/ ISTs	Using the General Scheduler window, verify instrument BAPs have been defined by the ISTs: verify that at least one BAP for each instrument (except	BAPs include activities, modifications to command parameters, and offset times for the activities	Release B		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		ASTER) is displayed in the BAPs section of the General Scheduler window				
2.029	EOC	Using the BAP Definer window, define the following instrument BAPs: EOC3_CERESF_BAP_1_FR: EOC3_CERESF_ACT_1_FR activity EOC3_CERESF_BAP_2_FR: EOC3_CERES_ACT_1_FR activity EOC3_CERES_ACT_2_FR activity EOC3_MISR_BAP_1_FR: EOC3_MISR_ACT_1_FR activity EOC3_MODIS_BAP_1_FR: EOC3_MODIS_ACT_1_FR activity EOC3_MOPITT_BAP_1_FR: EOC3_MOPITT_ACT_1_FR activity	BAPs are defined which include activities, modifications to command parameters, and scheduling information	Use Steps 31-42 to use the BAP Definer window		4/9/97
2.030	EOC	Define the following spacecraft subsystem BAPs: EOC3_ELEC_BAP_1_FR: (EPS resource) EOC3_EAS_ACT_	BAPs are defined which include activities, modifications to command parameters, and scheduling information	Use Steps 31-42 to use the BAP Definer window		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		1_FR activity EOC3_EPS_ACT_ 1_FR activity Edit parameter ADJUSTMENT=10 0 EOC3_COM_BAP_1_FR: EOC3_COM_ACT _1_FR Edit parameter Number_Steps=50 Scheduling Information: Start Time: 1999/175 00:00:00 Duration: 15 minutes Frequency: Every 2 months				
2.031	EOC	Define a new BAP: click on the BAP Definer File menu and select New	New window is displayed			4/9/97
2.032	EOC	Enter EOC3_RESOURCE_BAP _# _FR for the BAP name, select AM1 RESOURCE as the resource, and click OK	New window is no longer displayed			4/9/97
2.033	EOC	Incorporate activities into the BAP: click on the BAP Definer Edit menu and select Activity List	Activity List window is displayed			4/9/97
2.034	EOC	Select the activities from the Available Activities list and click Add	The activities are displayed in the Activities within this BAP window			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
2.035	EOC	Click Apply and then click OK	Activity List window is no longer displayed, activities appear in the BAP Activities portion of the BAP Definer window			4/9/97
2.036	EOC	Edit command parameters: click on the BAP Definer Edit menu and select Command Parameters	Parameters window is displayed			4/9/97
2.037	EOC	Select the activity from the Activity list, select the command from the Commands list, and select a parameter from the Parameters list	The activity, command, and parameter are highlighted			4/9/97
2.038	EOC	Enter valid modified parameter values, click Apply and OK	Parameters window is no longer displayed, command parameters are displayed in the BAP Activities portion of the BAP Definer window			4/9/97
2.039	EOC	Enter scheduling information: click on the BAP Definer Edit menu and select Scheduling Information	Scheduling Information window is displayed			4/9/97
2.040	EOC	Select the activity from the Activity List, enter the times, and click Apply and OK	Scheduling Information window is no longer displayed, scheduling information is displayed in the BAP Activities portion of the BAP Definer window			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
2.041	EOC	Select Save from the BAP Definer File menu item	The BAP is saved			4/9/97
2.042	EOC	Select Close from the BAP Definer File menu item	The BAP is closed			4/9/97
3.001	EOC	Collect all necessary screen snaps, dumps, etc. needed for post-test analysis and verification				4/9/97
3.002	UWS	Bring down User Work Stations (UWS). In the UNIX window where the user station was initiated, enter: MyKill				4/9/97
3.003	UWS	After UWS killed, check for undesirable processes. ps -ax				4/9/97
3.004	UWS	Open any iconized				

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		(May be already open in mss2eoc SUN room 2): netscape	automatically displayed, check Netscape's bookmarks. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			
3.007	UWS	Verify no endpoints exist on UWS: Click on Nameserver Database Click on Clear Form In EntryID field enter: fose#oe (where # is UWS number) Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the UWS using ps -ax . They must all be removed/killed prior to system startup.			4/9/97
3.008	RTS	Bring down Real Time Server (foseoc6). In the UNIX window where the RTS was initiated, enter: MyKill	Wait 1-5 minutes			4/9/97
3.009	RTS	After RTS killed, check for undesirable processes. ps -ef				4/9/97
3.010	RTS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill "pid" for each undesirable process. Type ps -ef again to verify.	Notes: The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97
3.011	RTS	Bring up the FOS	FOS Database Access Page			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		Homepage on Netscape (May be already open in mss2eoc SUN room 2): netscape	displayed. If not automatically displayed, check Netscape's bookmarks. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			
3.012	RTS	Verify no endpoints exist on RTS: Click on Nameserver Database Click on Clear Form In EntryID field enter: foseoc6 Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the Real Time Server using ps -ef . They must all be removed/killed prior to system startup.			4/9/97
3.013	DS	Bring down Data Server (foseoc7). In the UNIX window where the RTS was initiated, enter: MyKill	Wait 1-5 minutes.			4/9/97
3.014	DS	After DS killed, check for undesirable processes. ps -ef				4/9/97
3.015	DS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill -USR1 "pid" for each active process, then use kill -9	Notes: "kill -USR1" saves data created since the Data Server was brought up. Use "kill -9" only after "kill -USR" on the Data Server or Real Time Server; or data may be lost.The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		"pid" for each undesirable process. Type ps -ef again to verify. Kill "pid" ????				
3.016	DS	Bring up the FOS Homepage on Netscape (May be already open in mss2eoc SUN room 2): netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape's bookmarks. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			4/9/97
3.017	DS	Verify no endpoints exist on DS: Click on Nameserver Database Click on Clear Form In EntryID field enter: foseoc7 Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the Data Server using ps -ef . They must all be removed/killed prior to next system startup.			4/9/97
3.018	EOC	Verify no endpoints exist on FOS: Click on Nameserver Database Click on Clear Form Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the User Work Stations, Real Time Server, and Data Server using ps -ef or ps -ax. All processes must be removed/killed prior to system startup.			4/9/97
4.001		Verify EOC-2020#A			EOC-2020#A,	4/9/97
4.002		Verify EOC-2030#A			EOC-2030#A,	4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
4.003		Verify EOC-2070#A			EOC-2070#A,	4/9/97
4.004		Verify EOC-2170#A			EOC-2170#A,	4/9/97
4.005		Verify EOC-2180#A			EOC-2180#A,	4/9/97
4.006		Verify EOC-2200#A			EOC-2200#A,	4/9/97
4.007		Verify EOC-2210#A			EOC-2210#A,	4/9/97
4.008		Verify EOC-2250#A			EOC-2250#A,	4/9/97
4.009		Verify EOC-2270#A		Will be tested with an IST in ICT13	EOC-2270#A,	4/9/97
4.010		Verify EOC-2272#A			EOC-2272#A,	4/9/97
4.011		Verify EOC-2460#A			EOC-2460#A,	4/9/97
4.012		Verify EOC-2480#A		Will be tested with an IST in ICT13	EOC-2480#A,	4/9/97
4.013		Verify EOC-2482#A			EOC-2482#A,	4/9/97

EOC3.2 Initial Scheduling

Description: This test case verifies that the EOC can perform initial scheduling activities. The activities and BAPs defined above will be scheduled against a what-if plan and the master mission plan. Commands and command procedures will be scheduled against a what-if plan and the master mission plan. The user will be notified of any constraint violations. The ECS IST will ingest ASTER STSs in schedule and analysis (what-if) modes. After constraint checking, the activities in the schedule mode STS will be scheduled on the master mission plan. A Preliminary Resource Schedule (PRS) will be generated and transmitted to the ASTER ICC via the ECS IST. The activities in the analysis mode STS will be scheduled against a what-if plan. A PRS will be generated and transmitted to the ASTER ICC via the ECS IST. The ECS IST will ingest ASTER ODSs in schedule and analysis (what-if) modes. After constraint checking, the activities in the schedule mode ODS will be scheduled on the master mission plan. An Activity Schedule (ACS) will be generated and transmitted to the ASTER ICC via the ECS IST. The activities in the analysis mode ODS will be scheduled against a what-if plan. An ACS will be generated and transmitted to the ASTER ICC via the ECS IST. The EOC will formulate and submit TDRSS schedule requests. The NCC will respond with schedules or notifications of rejection along with the reasons for rejection. The schedules will be placed on the mission timeline and will be available to the ISTs and SDPS.

<u>Verified Requirements:</u>
EOC-2030#A
EOC-2070#A
EOC-2170#A
EOC-2180#A
EOC-2200#A
EOC-2210#A
EOC-2250#A
EOC-2270#A
EOC-2272#A
EOC-2460#A
EOC-2480#A
EOC-2482#A
EOC-2220#A
EOC-2280#A
EOC-2290#A
EOC-2300#A
EOC-2310#A
EOC-2320#A
EOC-2350#A

Procedures:

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
1.001	I&T	Verify that all participants are configured for test execution	3.1 CSMS, FDF, SDPS, ECS IST, US ISTs3.2 SDPS, ECS IST, US ISTs, NCC3.3 ECS IST, US ISTs, NCC3.4 ECS IST, US ISTs, SDVF	Release B		4/9/97
1.002	EOC	If the Data Server (DS) and Real Time Server (RTS) are running, skip to step 21 to start a User Work Station (UWS).				4/9/97
1.003	EOC	Log onto an EOC console (msseoc2) as IVVTEST. Enter password.	UNIX Terminal window(s) open.Preferably bring up the Data Server and Real Time Server on a console that will not be used as a user workstation during the test.Note: Startup and shutdown procedures can be found in the Operations Tools Manual page 4-3.Use of msseoc2 is for consistency; operationally it will be used for LSM not as a Userstation.			4/9/97
1.004	EOC	Open SUN workstation room 2 (of 4). Click on button labeled Two.	UNIX Terminal window(s) open.Note: Use of 2nd & 3rd rooms are for organizational purposes only, it is not a required configuration.	Open a UNIX terminal window if none open.		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
1.005	EOC	Bring up the FOS Homepage on Netscape: netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape for a bookmark. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			4/9/97
1.006	EOC	Verify no endpoints exist: Click on Nameserver Database Click on Clear Form Click on Submit.	"Total matches = 0".Note: If any endpoints exist watch for live processes/endpoints on the Data Server, Real Time Server, and on User Stations in the following steps. They must all be removed/killed prior to system startup.			4/9/97
1.007	EOC	Open SUN workstation room 3 (of 4). Click on button labeled Three.	UNIX Terminal window(s) open.Note: Use of 2nd & 3rd rooms are for organizational purposes only, it is not a required configuration. Also, Data Server and Real Time Server may be started from different consoles.	Open two UNIX terminal windows if none open.		4/9/97
1.008	DS	Remote login to the Data Server (foseoc7): rlogin foseoc7 enter your "password" (used in step 1)	Successful login to Data Server.			4/9/97
1.009	DS	Change directory and check for live processes. test	Current processes will be displayed along with	Path may be aliased as "test"		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		(or cd /fos/test/am1/scripts/setup) ps -ef	owner. Note: "ps -ef" truncates the process path/name. Use "ps -ax" to see process name			
1.010	DS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill -USR1 "pid" for each active process, then use kill -9 "pid" for each undesirable process. Type ps -ef again to verify.	Notes: "kill -USR1" saves data created since the Data Server was brought up. Use "kill -9" only after "kill -USR" on the Data Server or Real Time Server; or data may be lost.The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97
1.011	RTS	From the 2nd UNIX window in room 3, remote login to the Real Time Server (foseoc6): rlogin foseoc6 enter your "password" (same as in step 1)	Successful login to Real Time Server.			4/9/97
1.012	RTS	Change directory and check for live processes. test (or cd /fos/test/am1/scripts/setup) ps -ef	Current processes will be displayed along with owner and process id.			4/9/97
1.013	RTS	Kill all undesirable processes - Processes with a /fos/test/Am1/bin/...				4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		prefix Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill -USR1 "pid" for each active process, then use kill -9 "pid" for each undesirable process. Type ps -ef again to verify.				
1.014	DS	At the Data Server (foseoc7), source the A2_DataServerStartup shell script from directory: /fos/test/am1/scripts/setup. source A2_DataServerStartup	The script will take 1- 5 minutes to complete.			4/9/97
1.015	DS	Observe in the UNIX window: "Successful installation of signal handler FpLqSigHand", and repeating "Waiting for activity"	If this message is not displayed, first wait a little longer, while waiting check the number of processes on the Data Server via netscape (next step). Most likely cause of failure is the presence of processes/endpoints prior to startup of Data Server. If unsuccessful startup, type MyKill, in Data Server's UNIX window, recheck for processes on all servers, and restart.			4/9/97
1.016	EOC	From Netscape in SUN workstation room 2, verify	The number of endpoints found is 14.Using "ps -ax"			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		that 14 endpoints are now found by submitting a blank form. Back Submit	18 processes are active.If the number of endpoints does not equal 14, be sure startup has completed, if so, use MyKill to clean out all processes. Restart from step 4.			
1.017	RTS	At the Real Time Server (foseoc6) in SUN workstation room 3, source the A2_RealTimeServerStartup shell script from directory: /fos/test/am1/scripts/setup. source A2_RealTimeServerStartup	The script will take 2- 5 minutes to complete.			4/9/97
1.018	RTS	Observe in the UNIX window: "DECOM IS READY TO RECEIVE I CHANNEL PACKETS..." and "DECOM IS READY TO RECEIVE Q CHANNEL PACKETS..."	Note: The DECOM messages will appear several times, wait until they appear on two consecutive lines.There should not be any 'FORMAT Problem: xxx - socket error'. This is an indication that endpoints existed prior to startup.			4/9/97
1.019	EOC	From Netscape in the SUN workstation room 2, verify that 49 endpoints are now found by submiting a blank form. Back Submit	The number of endpoints found is 49.If the number of endpoints does not equal 49, be sure startup has completed, if so, use MyKill to clean out all Real Time Server (RTS)			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
			processes. Use Netscape with "foseoc6" in the "Entry ID" field to verify 0 endpoints on RTS. Use "ps -ef" to check for undesirable processes. Restart RTS.			
1.020	EOC	Leave Data Server and Real Time Server windows open to view statuses.				4/9/97
1.021	EOC	If the console will be used as a User workstation, close Netscape.	Warning: Netscape and the Event_Display window can not be open at the same time (12/05/96).			4/9/97
1.022	UWS	Log onto an EOC User Work Station (preferably non-msseoc2). Enter your user name. Enter your password.	UNIX Terminal window(s) open.Note: The User station can be brought up at the same time as the Real Time Server. However this makes the endpoint count via Netscape a bit more difficult for use to double-check proper startup. Patience is a virtue.			4/9/97
1.023	UWS	Change directory and check for live processes. test (or cd /fos/test/am1/scripts/setup) ps -ax	Current processes will be displayed along with owner. There should be no undesirable processes. If so, run MyKill as owner of processes. 'Kill -9' is a last resort.Use "ps -ax" on SUN.			4/9/97
1.024	UWS	Source the	The script will take 3 - 5			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		A2_UserStationStartup shell script from directory: /fos/test/am1/scripts/setup. source A2_UserStationStartup	minutes to complete.The following six planning and scheduling windows will open: -Load Generator -Activity Definer -BAP Definer -Load_Manager -EOS Timeline -General Scheduler.A Control Window will open last.Netscape endpoint count at this point is 57.			
1.025	UWS	Iconize the 6 planning and scheduling windows.	If there are not 6 planning and scheduling icons and the Control Window, first wait a little longer; while waiting check the number of processes on the user station via netscape (enter console name in "Entry ID" field. Correct number of user station endpoints is 8)If unsuccessful startup, type MyKill, in user Station's UNIX window, kill undesirable processes, and restart user station only. If still unsuccessful call for help, you'll probably perform a complete shutdown and restart!			4/9/97
1.026	UWS	Bring up Event_Display window. Click on "Tools..." button in Control	Event_Display may take a few minutes to appear.			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		Window, select Event_Display, and OK.				
1.027	UWS	Issue the ECL directive to connect to string 100: STRING CONNECT STRING=100 TLMTY PE=ALL CONFIG=MIRROR	Event message: "Successfully connected to String 100."Approximately a 7 minute wait.			4/9/97
1.028	UWS	From a UNIX window, different from the window used for User startup, run the SI&T userstation configuration recording script: /home/ivvtest3/scripts/tconf ig.scr	This can be done while waiting for the string to connect!Creates a file called testconfig.			4/9/97
1.029	UWS	Record the system configuration on the execution cover sheet.	System configuration recorded (while waiting for the string to connect).			4/9/97
1.030	UWS	Enable telemetry data archiving. Note: Release A: Archiving is already enabled. Release B: The ECL directive ARCHIVE will control the archiving modes: ARCHIVE TLM =ENABLE <tlm TYPE>	For Release A, no event message is expected. For Release B, an event message stating that telemetry archiving is enabled.			4/9/97
2.001	EOC	Click on the File menu item in the Timeline and select Open	Open Plan window is displayed			4/9/97
2.002	EOC	Select the Master Plan, select Start and Stop times of 1999/175 00:00:00 -	Timeline for the 1999/175 time range is displayed			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		1999/176 00:00:00, and click OK				
2.003	EOC	Click on the Acts toggle button in the General Scheduler window	Activities defined in EOC3.1 are displayed in the Activities section of the window for each resource			4/9/97
2.004	EOC	Select the Master Plan from the Open Plans List in the General Scheduler window	Activities will be scheduled against the Master Plan			4/9/97
2.005	EOC	Click on the Impact toggle button	Activities will be scheduled in impact mode			4/9/97
2.006	EOC	Schedule the following activities: EOC3_ASTER_ACT_1_FR Start Time: 1999/175 01:00:00 Stop Time: 1999/175 01:01:00 EOC3_CERESF_ACT_1_FR Start Time: 1999/175 02:00:00 Stop Time: 1999/175 02:15:00 EOC3_MODIS_ACT_1_FR Start Time: 1999/175 05:00:00 Stop Event: Orbit 151, Sequence 1, Sunset +00:01:00 EOC3_MOPITT_ACT_1_FR Start Time: 1999/175 02:15:00 Duration: 5 hours EOC3_CDH_ACT_1_FR Start Event: Orbit	All activities are displayed on the Timeline for the appropriate resource and time6/24/99 00:59:55-01:01:056/24/99 01:55:00-02:20:00Standby 6/24/99 02:00:30- 1/19/2058 03:14:066/24/99 04:55:00-06:49:21Science Day 6/24/99 04:55:00-1/19/2058 03:14:066/24/99 02:14:30-07:16:106/24/99 07:02:35-10:00:056/24/99 16:54:19-18:04:196/24/99 15:57:26-16:16:266/24/99 18:00:00-19:00:006/24/99 23:00:00-23:45:00	Use Step 7 to schedule the activities		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		152, Sequence 1, Sunrise - 02:00:00 Stop Time: 1999/175 10:00:00 EOC3_COM_ACT_1_FR Start Event: Orbit 155, Sequence 1, Sunrise +03:00:00 Stop Event: Orbit 155, Sequence 1, Sunrise +04:00:00 EOC3_EAS_ACT_1_FR Start Event: Orbit 159, Sequence 1, Sunset - 04:00:00 Duration: 15 minutes EOC3_EPS_ACT_1_FR Start Time: 1999/175 18:00:00 Stop Time: 1999/175 19:00:00 EOC3_GNC_ACT_1_FR Start Time: 1999/175 23:00:00 Stop Time: 1999/175 23:45:00				
2.007	EOC	Change the resource to schedule against to RESOURCE, select the desired activity, enter the times, and click the Schedule button	All activities are displayed on the Timeline for the appropriate resource and time			4/9/97
2.008	EOC	Click on the NoImpact	Activities will be scheduled			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		toggle button	in non-impact mode			
2.009	EOC	Schedule the following activities: EOC3_CERESF_ACT_2 Start Time: 1999/175 02:00:00 Stop Time: 1999/175 02:10:00 EOC3_MISR_ACT_1_FR Start Time: 1999/175 20:00:00 Stop Time: 1999/175 20:10:00 EOC3_PMS_ACT_1_FR Start Time: 1999/175 21:00:00 Stop Time: 1999/175 23:30:00 EOC3_TCS_ACT_1_FR Start Time: 1999/175 22:00:00 Stop Time: 1999/175 23:00:01	EOC3_CERESF_ACT_2_FR is not displayed on the Timeline due to the conflict with EOC3_CERES_ACT_1_FR, all other activities are scheduled6/24/99 19:58:00-20:12:006/24/99 21:00:00-23:30:006/24/99 22:00:00-23:00:01	Use Step 7 to schedule the activities		4/9/97
2.010	EOC	Click on the NoImpact and Oversubscribe toggle buttons	Activities will be scheduled in non-impact with oversubscription mode	Release B		4/9/97
2.011	EOC	Schedule the following activities:	All activities are displayed on the Timeline for the appropriate resource and time	Use Step 7 to schedule the activities		4/9/97
2.012	EOC	Click on the File menu item in the Timeline and select Open	Open Plan window is displayed			4/9/97
2.013	EOC	Select the what-if plan, select Start and Stop times of 1999/175 00:00:00 - 1999/176 00:00:00, and	Timeline for the 1999/175 time range is displayed			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		click OK				
2.014	EOC	Click on the Acts toggle button in the General Scheduler window	Activities defined in EOC3.1 are displayed in the Activities section of the window			4/9/97
2.015	EOC	Select the what-if plan from the Open Plans List in the General Scheduler window	Activities will be scheduled against the what-if plan			4/9/97
2.016	EOC	Click on the Impact toggle button	Activities will be scheduled in impact mode			4/9/97
2.017	EOC	Schedule the following activities: EOC3_ASTER_ACT_1_FR Start Time: 1999/175 01:00:00 Stop Time: 1999/175 01:01:00 EOC3_CERESF_ACT_1_FR Start Time: 1999/175 02:00:00 Stop Time: 1999/175 02:15:00 EOC3_MODIS_ACT_1_FR Start Time: 1999/175 05:00:00 Stop Event: Orbit 151, Sequence 1, Sunset +00:01:00 EOC3_MOPITT_ACT_1_FR Start Time: 1999/175 02:15:00 Duration: 5 hours EOC3_CDH_ACT_1_FR Start Event: Orbit 152, Sequence 1,	All activities are displayed on the Timeline for the appropriate resource and time6/24/99 00:59:55-01:01:056/24/99 01:55:00-02:20:00Standby 6/24/99 02:00:30- 1/19/2058 03:14:066/24/99 04:55:00-06:49:21Science Day 6/24/99 04:55:00-1/19/2058 03:14:066/24/99 02:14:30-07:16:106/24/99 07:02:35-10:00:056/24/99 16:54:19-18:04:196/24/99 15:57:26-16:16:266/24/99 18:00:00-19:00:006/24/99 23:00:00-23:45:00	Use Step 18 to schedule the activities		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		Sunrise - 02:00:00 Stop Time: 1999/175 10:00:00 EOC3_COM_ACT_1_FR Start Event: Orbit 155, Sequence 1, Sunrise +03:00:00 Stop Event: Orbit 155, Sequence 1, Sunrise +04:00:00 EOC3_EAS_ACT_1_FR Start Event: Orbit 159, Sequence 1, Sunset - 04:00:00 Duration: 15 minutes EOC3_EPS_ACT_1_FR Start Time: 1999/175 18:00:00 Stop Time: 1999/175 19:00:00 EOC3_GNC_ACT_1_FR Start Time: 1999/175 23:00:00 Stop Time: 1999/175 23:45:00				
2.018	EOC	Change the resource to schedule against to RESOURCE, select the desired activity, enter the times, and click the Schedule button	All activities are displayed on the Timeline for the appropriate resource and time			4/9/97
2.019	EOC	Click on the NoImpact toggle button	Activities will be scheduled in non-impact mode			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
2.020	EOC	Schedule the following activities: EOC3_CERESF_ACT_2 Start Time: 1999/175 02:00:00 Stop Time: 1999/175 02:10:00 EOC3_MISR_ACT_1_FR Start Time: 1999/175 20:00:00 Stop Time: 1999/175 20:10:00 EOC3_PMS_ACT_1_FR Start Time: 21:00:00 Stop Time: 23:30:00 EOC3_TCS_ACT_1_FR Start Time: 22:00:00 Stop Time: 23:00:01	EOC3_CERESF_ACT_2_FR is not displayed on the Timeline due to the conflict with EOC3_CERESF_ACT_1_FR, all other activities are scheduled6/24/99 19:58:00-20:12:006/24/99 21:00:00-23:30:006/24/99 22:00:00-23:00:01	Use Step 18 to schedule the activities		4/9/97
2.021	EOC	Click on the NoImpact and Oversubscribe toggle buttons	Activities will be scheduled in non-impact with oversubscription mode			4/9/97
2.022	EOC	Schedule the following activities:	All activities are displayed on the Timeline for the appropriate resource and time, even though the TCS activity is scheduled twice with overlapping times	Use Step 18 to schedule the activities		4/9/97
2.023	EOC	Schedule BAPs in Impact, NoImpact, and NoImpact with Oversubscription modes against the Master Plan and the what-if plan		Release B		4/9/97
2.024	EOC	Click on the File menu item	Open Plan window is			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		in the Timeline and select Open	displayed			
2.025	EOC	Select the Master Plan, select Start and Stop times of 1999/175 00:00:00 - 1999/176 00:00:00, and click OK	Timeline for the 1999/175 time range is displayed			4/9/97
2.026	EOC	Click on the Cmds toggle button in the General Scheduler window	Commands related to the selected resource are displayed in the Commands section of the window			4/9/97
2.027	EOC	Select the Master Plan from the Open Plans List in the General Scheduler window	Commands will be scheduled against the Master Plan			4/9/97
2.028	EOC	Click on the ATC Command toggle button	ATC Commands are displayed in the Commands section of the window			4/9/97
2.029	EOC	Click on the Impact toggle button	Commands will be scheduled in impact mode			4/9/97
2.030	EOC	Select the AM1 ASTER resource	ASTER commands are displayed in the Commands section of the window			4/9/97
2.031	EOC	Select the AST_TURN_ON_C_VDP 1 command, enter a Start Time 1999/175 15:00:00 and a Stop Time of 1999/175 15:01:00, and click the Schedule button	The command is displayed on the Timeline for the ASTER resource			4/9/97
2.032	EOC	Click on the NoImpact toggle button	Commands will be scheduled in non-impact mode			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
2.033	EOC	Select the AST_TURN_OFF_C_VDP 1 command, enter a Start Time 1999/175 15:00:30 and a Stop Time of 1999/175 15:01:30, and click the Schedule button	The command is not displayed on the Timeline for the ASTER resource			4/9/97
2.034	EOC	Click on the NoImpact and Oversubscribe toggle buttons	Commands will be scheduled in non-impact with oversubscription mode	Release B		4/9/97
2.035	EOC	Select the AST_TURN_OFF_C_VDP 1 command, enter a Start Time 1999/175 15:00:30 and a Stop Time of 1999/175 15:01:30, and click the Schedule button	The command is displayed on the Timeline for the ASTER resource	Release B		4/9/97
2.036	EOC	Click on the File menu item in the Timeline and select Open	Open Plan window is displayed			4/9/97
2.037	EOC	Select the what-if plan, select Start and Stop times of 1999/175 00:00:00 - 1999/176 00:00:00, and click OK	Timeline for the 1999/175 time range is displayed			4/9/97
2.038	EOC	Click on the Cmds toggle button in the General Scheduler window	Commands related to the selected resource are displayed in the Commands section of the window			4/9/97
2.039	EOC	Select the what-if plan from the Open Plans List in the General Scheduler window	Commands will be scheduled against the what-if plan			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
2.040	EOC	Click on the ECL Command toggle button	ECL Commands are displayed in the Commands section of the window			4/9/97
2.041	EOC	Click on the Impact toggle button	Commands will be scheduled in impact mode			4/9/97
2.042	EOC	Select the AM1 ASTER resource	ASTER commands are displayed in the Commands section of the window			4/9/97
2.043	EOC	Select the AST_TURN_ON_C_VDP 1 command, enter a Start Time 1999/175 15:00:00 and a Stop Time of 1999/175 15:01:00, and click the Schedule button	The command is displayed on the Timeline for the ASTER resource			4/9/97
2.044	EOC	Click on the NoImpact toggle button	Commands will be scheduled in non-impact mode			4/9/97
2.045	EOC	Select the AST_TURN_OFF_C_VDP 1 command, enter a Start Time 1999/175 15:00:30 and a Stop Time of 1999/175 15:01:30, and click the Schedule button	The command is not displayed on the Timeline for the ASTER resource			4/9/97
2.046	EOC	Click on the NoImpact and Oversubscribe toggle buttons	Commands will be scheduled in non-impact with oversubscription mode	Release B		4/9/97
2.047	EOC	Select the AST_TURN_OFF_C_VDP 1 command, enter a Start Time 1999/175 15:00:30	The command is displayed on the Timeline for the ASTER resource	Release B		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		and a Stop Time of 1999/175 15:01:30, and click the Schedule button				
2.048	EOC	Schedule Procs in Impact, NoImpact, and NoImpact with Oversubscription modes against the Master Plan and the what-if plan		Release B		4/9/97
2.049	EOC	Verify an ASTER STS with a schedule mode of "SCHEDULE" is available (transmitted from the ASTER ICOS to the ECS IST - Release B)	The ASTER_STS_1999175001 .txt file resides in the fos/test/am1/data/PAS directory and is of the format described in the ECS/ASTER GDS ICD			4/9/97
2.050	EOC	From the terminal window where the User Station was brought up, use vi to edit the ast_load script: test (or cd fos/test/am1/setup/scripts) vi ast_load change -inFile to desired filename :wq				4/9/97
2.051	EOC	From the terminal window where the User Station was brought up, run the script to schedule the activities: ast_load				4/9/97
2.052	EOC	Verify the activities in the STS are scheduled on the Master Plan: EOC3_ASTER_ACT_1_F	The activities are displayed on the Timeline for the ASTER resource and the appropriate time6/24/99			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		R ASTER Stereo	11:59:55-13:00:056/24/99 18:15:00-20:15:00			
2.053	EOC/ ECS IST	Verify that a PRS is generated and sent to the ASTER ICOS	The PRS resides in the appropriate directory and is of the format described in the ECS/ASTER GDS ICD (including constraint information)	Release B		4/9/97
2.054	EOC	Verify an ASTER STS with a schedule mode of "SCHEDULE" and times that overlap the previous STS is available (transmitted from the ASTER ICOS to the ECS IST - Release B)	The ASTER_STS_1999175002 .txt file resides in the fos/test/am1/data/PAS directory and is of the format described in the ECS/ASTER GDS ICD			4/9/97
2.055	EOC	From the terminal window where the User Station was brought up, use vi to edit the ast_load script: test (or cd fos/test/am1/setup/scripts) vi ast_load change -inFile to desired filename :wq				4/9/97
2.056	EOC	From the terminal window where the User Station was brought up, run the script to schedule the activities: ast_load				4/9/97
2.057	EOC	Verify the activities in the STS are scheduled on the Master Plan:	The activities are displayed on the Timeline for the ASTER resource and the			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		EOC3_ASTER_ACT_1_F R ASTER Stereo	appropriate time (overlap previously scheduled activities)6/24/99 12:29:55-13:30:056/24/99 18:00:00-20:00:00			
2.058	EOC/ ECS IST	Verify that a PRS is generated and sent to the ASTER ICOS	The PRS resides in the appropriate directory and is of the format described in the ECS/ASTER GDS ICD	Release B		4/9/97
2.059	EOC	Verify an ASTER STS with a schedule mode of "ANALYSIS" is available (transmitted from the ASTER ICOS to the ECS IST - Release B)	The ASTER_STA_1999175003 .txt file resides in the fos/test/am1/data/PAS directory and is of the format described in the ECS/ASTER GDS ICD			4/9/97
2.060	EOC	From the terminal window where the User Station was brought up, use vi to edit the ast_load script: test (or cd fos/test/am1/setup/scripts) vi ast_load change -inFile to desired filename :wq				4/9/97
2.061	EOC	From the terminal window where the User Station was brought up, run the script to schedule the activities: ast_load				4/9/97
2.062	EOC	Verify the activities in the STS are scheduled on a what-if plan:	The activities are displayed on the WHATIF175003 plan on the Timeline for the			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		EOC3_ASTER_ACT_1_F R ASTER Stereo	ASTER resource and the appropriate time6/24/99 12:29:55-13:30:056/24/99 18:00:00-20:00:00			
2.063	EOC/ ECS IST	Verify that a PRS is generated and sent to the ASTER ICOS	The PRS resides in the appropriate directory and is of the format described in the ECS/ASTER GDS ICD	Release B		4/9/97
2.064	EOC	Verify an ASTER ODS with a schedule mode of "SCHEDULE" is available (transmitted from the ASTER ICOS to the ECS IST - Release B)	The ASTER_ODS_199917500 4.txt file resides in the fos/test/am1/data/PAS directory and is of the format described in the ECS/ASTER GDS ICD			4/9/97
2.065	EOC	From the terminal window where the User Station was brought up, use vi to edit the ast_load script: test (or cd fos/test/am1/setup/scripts) vi ast_load change -inFile to desired filename :wq				4/9/97
2.066	EOC	From the terminal window where the User Station was brought up, run the script to schedule the activities: ast_load				4/9/97
2.067	EOC	Verify the activities in the ODS are scheduled on the Master Plan: EOC3_ASTER_ACT_1_F	The activities are displayed on the Timeline for the ASTER resource and the appropriate time6/24/99			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		R ASTER Stereo	06:48:16- 09:02:456/24/99 09:05:00-09:06:00			
2.068	EOC/ ECS IST	Verify that an ACS is generated and sent to the ASTER ICOS	The ACS resides in the appropriate directory and is of the format described in the ECS/ASTER GDS ICD (including constraint information)	Release B		4/9/97
2.069	EOC	Verify an ASTER ODS with a schedule mode of "SCHEDULE" and times that overlap the previous ODS is available (transmitted from the ASTER ICOS to the ECS IST - Release B)	The ASTER_ODS_1999175005.txt file resides in the fos/test/am1/data/PAS directory and is of the format described in the ECS/ASTER GDS ICD			4/9/97
2.070	EOC	From the terminal window where the User Station was brought up, use vi to edit the ast_load script: test (or cd fos/test/am1/setup/scripts) vi ast_load change -inFile to desired filename :wq				4/9/97
2.071	EOC	From the terminal window where the User Station was brought up, run the script to schedule the activities: ast_load				4/9/97
2.072	EOC	Verify the activities in the ODS are scheduled on the Master Plan:	The activities are displayed on the Timeline for the ASTER resource and the			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		EOC3_ASTER_ACT_1_FR ASTER Stereo	appropriate time Note that the ASTER Stereo activity will overlap the previously scheduled ASTER Stereo activity from Step 67.Note that the EOC3_ASTER_ACT_1_FR activity in this step will be scheduled in impact mode, that is the previously scheduled EOC3_ASTER_ACT_1_FR activity from Step 67 will be removed from the schedule.6/24/99 05:48:16-08:02:456/24/99 09:04:30-09:05:30			
2.073	EOC/ ECS IST	Verify that an ACS is generated and sent to the ASTER ICOS	The ACS resides in the appropriate directory and is of the format described in the ECS/ASTER GDS ICD			4/9/97
2.074	EOC	Verify an ASTER ODS with a schedule mode of "ANALYSIS" is available (transmitted from the ASTER ICOS to the ECS IST - Release B)	The ASTER_ODA_1999175006.txt file resides in the fos/test/am1/data/PAS directory and is of the format described in the ECS/ASTER GDS ICD			4/9/97
2.075	EOC	From the terminal window where the User Station was brought up, use vi to edit the ast_load script: test (or cd				4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		fos/test/am1/setup/scripts) vi ast_load change -inFile to desired filename :wq				
2.076	EOC	From the terminal window where the User Station was brought up, run the script to schedule the activities: ast_load				4/9/97
2.077	EOC	Verify the activities in the ODS are scheduled on a what-if plan ASTER Stereo EOC3_ASTER_ACT_1_FR	The activities are displayed on the WHATIF175006 plan on the Timeline for the ASTER resource and the appropriate time6/24/99 22:00:00-22:05:006/24/99 22:59:55-23:05:05			4/9/97
2.078	EOC/ ECS IST	Verify that an ACS is generated and sent to the ASTER ICOS	The ACS resides in the appropriate directory and is of the format described in the ECS/ASTER GDS ICD	Release B		4/9/97
2.079	EOC	Schedule communication contacts with NCC		Release B		4/9/97
2.080	NCC	Send schedules to EOC	NCC contact times are displayed on the Timeline	Release B		4/9/97
2.081	ISTs	Verify that schedules are available for display at ISTs	NCC contact times are displayed on the Timeline	Release B		4/9/97
2.082	EOC/ SDPS	Verify that schedules are provided to the SDPS		Release B		4/9/97
2.083	EOC/ ECS IST	Verify that an ASTER Request for EOC Schedules is transmitted from the ASTER ICOS to	The Request for EOC Schedules resides in the appropriate directory and is of the format described in	Release B		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		the ECS IST	the ECS/ASTER GDS ICD			
2.084	EOC/ ECS IST	Verify that an Activity Schedule is generated and sent to the ASTER ICOS	The Activity Schedule resides in the appropriate directory and is of the format described in the ECS/ASTER GDS ICD	Release B		4/9/97
3.001	EOC	Collect all necessary screen snaps, dumps, etc. needed for post-test analysis and verification				4/9/97
3.002	UWS	Bring down User Work Stations (UWS). In the UNIX window where the user station was initiated, enter: MyKill				4/9/97
3.003	UWS	After UWS killed, check for undesirable processes. ps -ax				4/9/97
3.004	UWS	Open any iconized processes, or pages that didn't close.....				4/9/97
3.005	UWS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill "pid" for each undesirable process. Type ps -ef again to verify.	Notes: The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
3.006	UWS	Bring up the FOS Homepage on Netscape (May be already open in mss2eoc SUN room 2): netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape's bookmarks. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			4/9/97
3.007	UWS	Verify no endpoints exist on UWS: Click on Nameserver Database Click on Clear Form In EntryID field enter: fose#oe (where # is UWS number) Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the UWS using ps -ax . They must all be removed/killed prior to system startup.			4/9/97
3.008	RTS	Bring down Real Time Server (foseoc6). In the UNIX window where the RTS was initiated, enter: MyKill	Wait 1-5 minutes			4/9/97
3.009	RTS	After RTS killed, check for undesirable processes. ps -ef				4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		Type ps -ef again to verify.				
3.011	RTS	Bring up the FOS Homepage on Netscape (May be already open in mss2eoc SUN room 2): netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape's bookmarks. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			4/9/97
3.012	RTS	Verify no endpoints exist on RTS: Click on Nameserver Database Click on Clear Form In EntryID field enter: foseoc6 Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the Real Time Server using ps -ef . They must all be removed/killed prior to system startup.			4/9/97
3.013	DS	Bring down Data Server (foseoc7). In the UNIX window where the RTS was initiated, enter: MyKill	Wait 1-5 minutes.			4/9/97
3.014	DS	After DS killed, check for undesirable processes. ps -ef				4/9/97
3.015	DS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill -USR1	Notes: "kill -USR1" saves data created since the Data Server was brought up. Use "kill -9" only after "kill -USR" on the Data Server or Real Time Server; or data may be lost.The user may need to be logged in as the owner of the processes			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		"pid" for each active process, then use kill -9 "pid" for each undesirable process. Type ps -ef again to verify. Kill "pid" ????	in order to kill them.			
3.016	DS	Bring up the FOS Homepage on Netscape (May be already open in mss2eoc SUN room 2): netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape's bookmarks. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			4/9/97
3.017	DS	Verify no endpoints exist on DS: Click on Nameserver Database Click on Clear Form In EntryID field enter: foseoc7 Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the Data Server using ps -ef . They must all be removed/killed prior to next system startup.			4/9/97
3.018	EOC	Verify no endpoints exist on FOS: Click on Nameserver Database Click on Clear Form Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the User Work Stations, Real Time Server, and Data Server using ps -ef or ps -ax. All processes must be removed/killed prior to system startup.			4/9/97
4.001		Verify EOC-2030#A			EOC-2030#A,	4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
4.002		Verify EOC-2070#A			EOC-2070#A,	4/9/97
4.003		Verify EOC-2170#A			EOC-2170#A,	4/9/97
4.004		Verify EOC-2180#A			EOC-2180#A,	4/9/97
4.005		Verify EOC-2200#A			EOC-2200#A,	4/9/97
4.006		Verify EOC-2210#A			EOC-2210#A,	4/9/97
4.007		Verify EOC-2220#A		NCR 2450, SSR calculations not always right	EOC-2220#A,	4/9/97
4.008		Verify EOC-2250#A			EOC-2250#A,	4/9/97
4.009		Verify EOC-2270#A		Will be tested with an IST in ICT13	EOC-2270#A,	4/9/97
4.010		Verify EOC-2272#A			EOC-2272#A,	4/9/97
4.011		Verify EOC-2280#A			EOC-2280#A,	4/9/97
4.012		Verify EOC-2290#A		Will be tested with an IST in ICT13	EOC-2290#A,	4/9/97
4.013		Verify EOC-2300#A		NCR 2450, SSR calculations not always right	EOC-2300#A,	4/9/97
4.014		Verify EOC-2310#A		NCR 2450, SSR calculations not always right	EOC-2310#A,	4/9/97
4.015		Verify EOC-2320#A		NCR 2450, SSR calculations not always right ALSO will be tested	EOC-2320#A,	4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
				with an IST in ICT13		
4.016		Verify EOC-2350#A		Will be tested with an IST in ICT13	EOC-2350#A,	4/9/97
4.017		Verify EOC-2460#A			EOC-2460#A,	4/9/97
4.018		Verify EOC-2480#A		Will be tested with an IST in ICT13	EOC-2480#A,	4/9/97
4.019		Verify EOC-2482#A			EOC-2482#A,	4/9/97

EOC3.3 Final Scheduling

Description: This test case verifies that the EOC can perform final scheduling activities. The EOC will generate a Detailed Activity Schedule (DAS), corresponding Absolute Time Command (ATC) load, and ground script for the portion of the timeline for which activities and commands were scheduled above. All activity-level hard constraints will be resolved and soft constraints will be approved. The DAS will be available to the ISTs. The binary ATC load, the ATC load report, and the integrated report will be generated, and the load catalog will be updated. The EOC will accept late changes via the ISTs. The portion of the timeline corresponding to the late changes will be unlocked, the late changes will be incorporated, and after constraint checking an updated DAS and ATC load will be generated. Additional TDRSS schedules will be requested if necessary to account for the late changes.

Verified Requirements:
EOC-2030#A
EOC-2170#A
EOC-2180#A
EOC-2200#A
EOC-2210#A
EOC-2250#A
EOC-2270#A
EOC-2272#A
EOC-2460#A
EOC-2480#A
EOC-2482#A
EOC-2220#A
EOC-2490#A
EOC-2510#A
EOC-2540#A
EOC-2550#A
EOC-2555#A
EOC-2620#A
EOC-3050#A
EOC-3090#A
EOC-3210#A
EOC-4010#A

Procedures:

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
1.001	I&T	Verify that all participants are configured for test execution	3.1 CSMS, FDF, SDPS, ECS IST, US ISTs3.2 SDPS, ECS IST, US ISTs, NCC3.3 ECS IST, US ISTs, NCC3.4 ECS IST, US ISTs, SDVF	Release B		4/9/97
1.002	EOC	If the Data Server (DS) and Real Time Server (RTS) are running, skip to step 21 to start a User Work Station (UWS).				4/9/97
1.003	EOC	Log onto an EOC console (msseoc2) as IVVTEST. Enter password.	UNIX Terminal window(s) open.Preferably bring up the Data Server and Real Time Server on a console that will not be used as a user workstation during the test.Note: Startup and shutdown procedures can be found in the Operations Tools Manual page 4-3.Use of msseoc2 is for consistency; operationally it will be used for LSM not as a Userstation.			4/9/97
1.004	EOC	Open SUN workstation room 2 (of 4). Click on button labeled Two.	UNIX Terminal window(s) open.Note: Use of 2nd & 3rd rooms are for organizational purposes only, it is not a required configuration.	Open a UNIX terminal window if none open.		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
1.005	EOC	Bring up the FOS Homepage on Netscape: netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape for a bookmark. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			4/9/97
1.006	EOC	Verify no endpoints exist: Click on Nameserver Database Click on Clear Form Click on Submit.	"Total matches = 0".Note: If any endpoints exist watch for live processes/endpoints on the Data Server, Real Time Server, and on User Stations in the following steps. They must all be removed/killed prior to system startup.			4/9/97
1.007	EOC	Open SUN workstation room 3 (of 4). Click on button labeled Three.	UNIX Terminal window(s) open.Note: Use of 2nd & 3rd rooms are for organizational purposes only, it is not a required configuration. Also, Data Server and Real Time Server may be started from different consoles.	Open two UNIX terminal windows if none open.		4/9/97
1.008	DS	Remote login to the Data Server (foseoc7): rlogin foseoc7 enter your "password" (used in step 1)	Successful login to Data Server.			4/9/97
1.009	DS	Change directory and check for live processes. test	Current processes will be displayed along with	Path may be aliased as "test"		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		(or cd /fos/test/am1/scripts/setup) ps -ef	owner. Note: "ps -ef" truncates the process path/name. Use "ps -ax" to see process name			
1.010	DS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill -USR1 "pid" for each active process, then use kill -9 "pid" for each undesirable process. Type ps -ef again to verify.	Notes: "kill -USR1" saves data created since the Data Server was brought up. Use "kill -9" only after "kill -USR" on the Data Server or Real Time Server; or data may be lost.The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97
1.011	RTS	From the 2nd UNIX window in room 3, remote login to the Real Time Server (foseoc6): rlogin foseoc6 enter your "password" (same as in step 1)	Successful login to Real Time Server.			4/9/97
1.012	RTS	Change directory and check for live processes. test (or cd /fos/test/am1/scripts/setup) ps -ef	Current processes will be displayed along with owner and process id.			4/9/97
1.013	RTS	Kill all undesirable processes - Processes with a /fos/test/Am1/bin/...				4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		prefix Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill -USR1 "pid" for each active process, then use kill -9 "pid" for each undesirable process. Type ps -ef again to verify.				
1.014	DS	At the Data Server (foseoc7), source the A2_DataServerStartup shell script from directory: /fos/test/am1/scripts/setup. source A2_DataServerStartup	The script will take 1- 5 minutes to complete.			4/9/97
1.015	DS	Observe in the UNIX window: "Successful installation of signal handler FpLqSigHand", and repeating "Waiting for activity"	If this message is not displayed, first wait a little longer, while waiting check the number of processes on the Data Server via netscape (next step). Most likely cause of failure is the presence of processes/endpoints prior to startup of Data Server. If unsuccessful startup, type MyKill, in Data Server's UNIX window, recheck for processes on all servers, and restart.			4/9/97
1.016	EOC	From Netscape in SUN workstation room 2, verify	The number of endpoints found is 14.Using "ps -ax"			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		that 14 endpoints are now found by submitting a blank form. Back Submit	18 processes are active.If the number of endpoints does not equal 14, be sure startup has completed, if so, use MyKill to clean out all processes. Restart from step 4.			
1.017	RTS	At the Real Time Server (foseoc6) in SUN workstation room 3, source the A2_RealTimeServerStartup shell script from directory: /fos/test/am1/scripts/setup. source A2_RealTimeServerStartup	The script will take 2- 5 minutes to complete.			4/9/97
1.018	RTS	Observe in the UNIX window: "DECOM IS READY TO RECEIVE I CHANNEL PACKETS..." and "DECOM IS READY TO RECEIVE Q CHANNEL PACKETS..."	Note: The DECOM messages will appear several times, wait until they appear on two consecutive lines.There should not be any 'FORMAT Problem: xxx - socket error'. This is an indication that endpoints existed prior to startup.			4/9/97
1.019	EOC	From Netscape in the SUN workstation room 2, verify that 49 endpoints are now found by submiting a blank form. Back Submit	The number of endpoints found is 49.If the number of endpoints does not equal 49, be sure startup has completed, if so, use MyKill to clean out all Real Time Server (RTS)			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
			processes. Use Netscape with "foseoc6" in the "Entry ID" field to verify 0 endpoints on RTS. Use "ps -ef" to check for undesirable processes. Restart RTS.			
1.020	EOC	Leave Data Server and Real Time Server windows open to view statuses.				4/9/97
1.021	EOC	If the console will be used as a User workstation, close Netscape.	Warning: Netscape and the Event_Display window can not be open at the same time (12/05/96).			4/9/97
1.022	UWS	Log onto an EOC User Work Station (preferably non-msseoc2). Enter your user name. Enter your password.	UNIX Terminal window(s) open.Note: The User station can be brought up at the same time as the Real Time Server. However this makes the endpoint count via Netscape a bit more difficult for use to double-check proper startup. Patience is a virtue.			4/9/97
1.023	UWS	Change directory and check for live processes. test (or cd /fos/test/am1/scripts/setup) ps -ax	Current processes will be displayed along with owner. There should be no undesirable processes. If so, run MyKill as owner of processes. 'Kill -9' is a last resort.Use "ps -ax" on SUN.			4/9/97
1.024	UWS	Source the	The script will take 3 - 5			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		A2_UserStationStartup shell script from directory: /fos/test/am1/scripts/setup. source A2_UserStationStartup	minutes to complete.The following six planning and scheduling windows will open: -Load Generator -Activity Definer -BAP Definer -Load_Manager -EOS Timeline -General Scheduler.A Control Window will open last.Netscape endpoint count at this point is 57.			
1.025	UWS	Iconize the 6 planning and scheduling windows.	If there are not 6 planning and scheduling icons and the Control Window, first wait a little longer; while waiting check the number of processes on the user station via netscape (enter console name in "Entry ID" field. Correct number of user station endpoints is 8)If unsuccessful startup, type MyKill, in user Station's UNIX window, kill undesirable processes, and restart user station only. If still unsuccessful call for help, you'll probably perform a complete shutdown and restart!			4/9/97
1.026	UWS	Bring up Event_Display window. Click on "Tools..." button in Control	Event_Display may take a few minutes to appear.			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		Window, select Event_Display, and OK.				
1.027	UWS	Issue the ECL directive to connect to string 100: STRING CONNECT STRING=100 TLMTY PE=ALL CONFIG=MIRROR	Event message: "Successfully connected to String 100."Approximately a 7 minute wait.			4/9/97
1.028	UWS	From a UNIX window, different from the window used for User startup, run the SI&T userstation configuration recording script: /home/ivvtest3/scripts/tconf ig.scr	This can be done while waiting for the string to connect!Creates a file called testconfig.			4/9/97
1.029	UWS	Record the system configuration on the execution cover sheet.	System configuration recorded (while waiting for the string to connect).			4/9/97
1.030	UWS	Enable telemetry data archiving. Note: Release A: Archiving is already enabled. Release B: The ECL directive ARCHIVE will control the archiving modes: ARCHIVE TLM =ENABLE <tlm TYPE>	For Release A, no event message is expected. For Release B, an event message stating that telemetry archiving is enabled.			4/9/97
2.001	EOC	In the Load Generator window, enter DAS ID of 175 and Version of 1				4/9/97
2.002	EOC	Enter DAS Start time of 6/24/99 00:00:00 and a DAS Stop time of 6/25/99				4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		00:00:00				
2.003	EOC	Enter an Uplink Start time of 6/23/99 00:00:00 and an Uplink Stop time of 6/23/99 08:00:00				4/9/97
2.004	EOC	Click OK to submit the request for DAS creation	The activities over the selected time period are used to generate the DAS. The user is prompted to approve or disapprove soft activity constraints. The ATC load contents, ATC load image, ATC load uplink, ATC load report, and integrated report are generated. The load catalog is updated (Sybase).	Soft constraint approval or disapproval is Release B		4/9/97
2.005	EOC	Verify the ATC load contents file (AM1_ATC_99_175_a.cnt) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.006	EOC	Verify the ATC load image file (AM1_ATC_99_175_a_1_ OF_1.img) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		file (AM1_ATC_99_175_a_1_OF_1.upl) is in the /fos/test/am1/loads directory and is of the correct format	check format			
2.008	EOC	Verify the ATC load report file (AM1_ACT_99_175_a.rpt) is in the /fos/test/am1/reports directory and is of the correct format	Use offline analysis to check format			4/9/97
2.009	EOC	Verify the integrated report file (Integrated_Report_175_1) is in the /fos/test/am1/groundsched/report directory and is of the correct format	Use offline analysis to check format			4/9/97
2.010	EOC	Copy the files noted in steps 5-9 to another directory for offline analysis: cp <filename> /home/ivvtest5				4/9/97
2.011	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * from fos_load_cat >go	Verify the ATC load information is in the fos_load_cat table, then type >exitto exit Sybase			4/9/97
2.012	EOC	Connect to a real-time string: STRING	Event Display indicates that the user station is			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		CONNECT STRING=100 TLMTYPE=ALL CONFIG=MIRROR	successfully connected to string 100			
2.013	EOC	Request command authority privilege for logical string 100: TAKE COMMAND STRING=100	Event Display indicates that the user acquired command authority			4/9/97
2.014	EOC	Verify the ground script is available: ECL>TOOL Command_Control	Command Control dialog box is displayed			4/9/97
2.015	EOC	Enter String ID 100, S/C ID AM1	Command Control window is displayed			4/9/97
2.016	EOC	Click on the File Menu Item and select Open, enter the DAS Start time entered previously, 1999/175 00:00:00 and the DAS Stop time entered previously, 1999/176 00:00:00, and click return and OK	The contents of the ground script are displayed in the Command Control window			4/9/97
2.017	EOC	Click on the File Menu Item and select Print to print the ground script	Verify using offline analysis that all scheduled activities from the timeline appear in the ground script			4/9/97
2.018	EOC/ ISTs	Verify the DAS, ATC load report and the integrated report are available to the ISTs		Release B		4/9/97
2.019	EOC	Schedule the ATC load for uplink		Release B		4/9/97
2.020	EOC	Enter the start and stop		Release B		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		time for DAS creation for a period of time in which there are activities with hard constraint violations				
2.021	EOC	Enter DAS ID (DOY) and version #		Release B		4/9/97
2.022	EOC	Click OK to submit the request for DAS creation	The activities over the selected time period are used to generate the DAS. Since there are hard constraint violations, the ATC load, ATC load report, integrated report, and ground script are not generated.	Release B		4/9/97
2.023	EOC	Select Constraint Check on the Load Generator window		Release B		4/9/97
2.024	EOC	Select the Master Plan		Release B		4/9/97
2.025	EOC	Enter start and stop times		Release B		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		if possible				
2.030	EOC	Schedule additional communication contacts		Release B		4/9/97
2.031	NCC	Send schedules to EOC	NCC contact times are displayed on the Timeline	Release B		4/9/97
3.001	EOC	Collect all necessary screen snaps, dumps, etc. needed for post-test analysis and verification				4/9/97
3.002	UWS	Bring down User Work Stations (UWS). In the UNIX window where the user station was initiated, enter: MyKill				4/9/97
3.003	UWS	After UWS killed, check for undesirable processes. ps -ax				4/9/97
3.004	UWS	Open any iconized processes, or pages that didn't close.....				4/9/97
3.005	UWS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill "pid" for each undesirable process. Type ps -ef again to verify.	Notes: The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97
3.006	UWS	Bring up the FOS	FOS Database Access Page			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		Homepage on Netscape (May be already open in mss2eoc SUN room 2): netscape	displayed. If not automatically displayed, check Netscape's bookmarks. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			
3.007	UWS	Verify no endpoints exist on UWS: Click on Nameserver Database Click on Clear Form In EntryID field enter: fose#oe (where # is UWS number) Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the UWS using ps -ax . They must all be removed/killed prior to system startup.			4/9/97
3.008	RTS	Bring down Real Time Server (foseoc6). In the UNIX window where the RTS was initiated, enter: MyKill	Wait 1-5 minutes			4/9/97
3.009	RTS	After RTS killed, check for undesirable processes. ps -ef				4/9/97
3.010	RTS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill "pid" for each undesirable process. Type ps -ef again to verify.	Notes: The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
3.011	RTS	Bring up the FOS Homepage on Netscape (May be already open in mss2eoc SUN room 2): netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape's bookmarks. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			4/9/97
3.012	RTS	Verify no endpoints exist on RTS: Click on Nameserver Database Click on Clear Form In EntryID field enter: foseoc6 Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the Real Time Server using ps -ef . They must all be removed/killed prior to system startup.			4/9/97
3.013	DS	Bring down Data Server (foseoc7). In the UNIX window where the RTS was initiated, enter: MyKill	Wait 1-5 minutes.			4/9/97
3.014	DS	After DS killed, check for undesirable processes. ps -ef				4/9/97
3.015	DS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill -USR1 "pid" for each active	Notes: "kill -USR1" saves data created since the Data Server was brought up. Use "kill -9" only after "kill -USR" on the Data Server or Real Time Server; or data may be lost.The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		process, then use kill -9 "pid" for each undesirable process. Type ps -ef again to verify. Kill "pid" ????				
3.016	DS	Bring up the FOS Homepage on Netscape (May be already open in mss2eoc SUN room 2): netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape's bookmarks. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			4/9/97
3.017	DS	Verify no endpoints exist on DS: Click on Nameserver Database Click on Clear Form In EntryID field enter: foseoc7 Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the Data Server using ps -ef . They must all be removed/killed prior to next system startup.			4/9/97
3.018	EOC	Verify no endpoints exist on FOS: Click on Nameserver Database Click on Clear Form Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the User Work Stations, Real Time Server, and Data Server using ps -ef or ps -ax. All processes must be removed/killed prior to system startup.			4/9/97
4.001		Verify EOC-2030#A			EOC-2030#A,	4/9/97
4.002		Verify EOC-2170#A			EOC-	4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
					2170#A,	
4.003		Verify EOC-2180#A			EOC-2180#A,	4/9/97
4.004		Verify EOC-2200#A			EOC-2200#A,	4/9/97
4.005		Verify EOC-2210#A			EOC-2210#A,	4/9/97
4.006		Verify EOC-2220#A		NCR 2450, SSR calculations not always right	EOC-2220#A,	4/9/97
4.007		Verify EOC-2250#A			EOC-2250#A,	4/9/97
4.008		Verify EOC-2270#A		Will be tested with an IST in ICT13	EOC-2270#A,	4/9/97
4.009		Verify EOC-2272#A			EOC-2272#A,	4/9/97
4.010		Verify EOC-2460#A			EOC-2460#A,	4/9/97
4.011		Verify EOC-2480#A		Will be tested with an IST in ICT13	EOC-2480#A,	4/9/97
4.012		Verify EOC-2482#A			EOC-2482#A,	4/9/97
4.013		Verify EOC-2490#A			EOC-2490#A,	4/9/97
4.014		Verify EOC-2510#A			EOC-2510#A,	4/9/97
4.015		Verify EOC-2540#A		Will be tested with an IST in ICT13	EOC-2540#A,	4/9/97
4.016		Verify EOC-2550#A		Will be tested with an IST in ICT13	EOC-2550#A,	4/9/97
4.017		Verify EOC-2555#A			EOC-2555#A,	4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
4.018		Verify EOC-2620#A		Will be tested with an IST in ICT13	EOC-2620#A,	4/9/97
4.019		Verify EOC-3050#A			EOC-3050#A,	4/9/97
4.020		Verify EOC-3090#A		NCR 4456, RTS load time tag incorrect ALSO NCR 4757, can't ingest ASCII loads, only binary ALSO NCR 4734, CMS-10125 req. incorrect	EOC-3090#A,	4/9/97
4.021		Verify EOC-3210#A			EOC-3210#A,	4/9/97
4.022		Verify EOC-4010#A		NCR 4456, RTS load time tag incorrect	EOC-4010#A,	4/9/97

EOC3.4 Command Management

Description: This test case verifies that the EOC can perform command management activities. Instrument microprocessor load contents files from the ISTs will be ingested and validated. The microprocessor uplink loads, the load reports, and the load image files will be generated, and the load catalog will be updated. Flight software load contents files from the SDVF will be ingested and validated. The flight software uplink loads, the load reports, and the load image files will be generated, and the load catalog will be updated. Table load contents files will be generated and validated at the EOC. The table uplink loads, the load reports, and the load image files will be generated, and the load catalog will be updated. Relative time sequence load contents files will be generated and validated at the EOC. The relative time sequence loads, the load reports, and the load image files will be generated, and the load catalog will be updated. The EOC will perform command-level constraint checking on all uplink data. The user will be notified of any constraint violations. All command-level hard constraints will be resolved and soft constraints will be approved.

<u>Verified Requirements:</u>
EOC-3020#A
EOC-3030#A
EOC-3050#A
EOC-3090#A
EOC-3160#A
EOC-3210#A
EOC-4010#A

Procedures:

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
1.001	I&T	Verify that all participants are configured for test execution	3.1 CSMS, FDF, SDPS, ECS IST, US ISTs3.2 SDPS, ECS IST, US ISTs, NCC3.3 ECS IST, US ISTs, NCC3.4 ECS IST, US ISTs, SDVF	Release B		4/9/97
1.002	EOC	If the Data Server (DS) and Real Time Server (RTS) are running, skip to step 21 to start a User Work Station (UWS).				4/9/97
1.003	EOC	Log onto an EOC console (msseoc2) as IVVTEST. Enter password.	UNIX Terminal window(s) open.Preferably bring up the Data Server and Real Time Server on a console that will not be used as a user workstation during the test.Note: Startup and shutdown procedures can be found in the Operations Tools Manual page 4-3.Use of msseoc2 is for consistency; operationally it will be used for LSM not as a Userstation.			4/9/97
1.004	EOC	Open SUN workstation room 2 (of 4). Click on button labeled Two.	UNIX Terminal window(s) open.Note: Use of 2nd & 3rd rooms are for organizational purposes only, it is not a required configuration.	Open a UNIX terminal window if none open.		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
1.005	EOC	Bring up the FOS Homepage on Netscape: netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape for a bookmark. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			4/9/97
1.006	EOC	Verify no endpoints exist: Click on Nameserver Database Click on Clear Form Click on Submit.	"Total matches = 0".Note: If any endpoints exist watch for live processes/endpoints on the Data Server, Real Time Server, and on User Stations in the following steps. They must all be removed/killed prior to system startup.			4/9/97
1.007	EOC	Open SUN workstation room 3 (of 4). Click on button labeled Three.	UNIX Terminal window(s) open.Note: Use of 2nd & 3rd rooms are for organizational purposes only, it is not a required configuration. Also, Data Server and Real Time Server may be started from different consoles.	Open two UNIX terminal windows if none open.		4/9/97
1.008	DS	Remote login to the Data Server (foseoc7): rlogin foseoc7 enter your "password" (used in step 1)	Successful login to Data Server.			4/9/97
1.009	DS	Change directory and check for live processes. test	Current processes will be displayed along with	Path may be aliased as "test"		4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		(or cd /fos/test/am1/scripts/setup) ps -ef	owner. Note: "ps -ef" truncates the process path/name. Use "ps -ax" to see process name			
1.010	DS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill -USR1 "pid" for each active process, then use kill -9 "pid" for each undesirable process. Type ps -ef again to verify.	Notes: "kill -USR1" saves data created since the Data Server was brought up. Use "kill -9" only after "kill -USR" on the Data Server or Real Time Server; or data may be lost.The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97
1.011	RTS	From the 2nd UNIX window in room 3, remote login to the Real Time Server (foseoc6): rlogin foseoc6 enter your "password" (same as in step 1)	Successful login to Real Time Server.			4/9/97
1.012	RTS	Change directory and check for live processes. test (or cd /fos/test/am1/scripts/setup) ps -ef	Current processes will be displayed along with owner and process id.			4/9/97
1.013	RTS	Kill all undesirable processes - Processes with a /fos/test/Am1/bin/...				4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		prefix Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill -USR1 "pid" for each active process, then use kill -9 "pid" for each undesirable process. Type ps -ef again to verify.				
1.014	DS	At the Data Server (foseoc7), source the A2_DataServerStartup shell script from directory: /fos/test/am1/scripts/setup. source A2_DataServerStartup	The script will take 1- 5 minutes to complete.			4/9/97
1.015	DS	Observe in the UNIX window: "Successful installation of signal handler FpLqSigHand", and repeating "Waiting for activity"	If this message is not displayed, first wait a little longer, while waiting check the number of processes on the Data Server via netscape (next step). Most likely cause of failure is the presence of processes/endpoints prior to startup of Data Server. If unsuccessful startup, type MyKill, in Data Server's UNIX window, recheck for processes on all servers, and restart.			4/9/97
1.016	EOC	From Netscape in SUN workstation room 2, verify	The number of endpoints found is 14.Using "ps -ax"			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		that 14 endpoints are now found by submitting a blank form. Back Submit	18 processes are active.If the number of endpoints does not equal 14, be sure startup has completed, if so, use MyKill to clean out all processes. Restart from step 4.			
1.017	RTS	At the Real Time Server (foseoc6) in SUN workstation room 3, source the A2_RealTimeServerStartup shell script from directory: /fos/test/am1/scripts/setup. source A2_RealTimeServerStartup	The script will take 2- 5 minutes to complete.			4/9/97
1.018	RTS	Observe in the UNIX window: "DECOM IS READY TO RECEIVE I CHANNEL PACKETS..." and "DECOM IS READY TO RECEIVE Q CHANNEL PACKETS..."	Note: The DECOM messages will appear several times, wait until they appear on two consecutive lines.There should not be any 'FORMAT Problem: xxx - socket error'. This is an indication that endpoints existed prior to startup.			4/9/97
1.019	EOC	From Netscape in the SUN workstation room 2, verify that 49 endpoints are now found by submiting a blank form. Back Submit	The number of endpoints found is 49.If the number of endpoints does not equal 49, be sure startup has completed, if so, use MyKill to clean out all Real Time Server (RTS)			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
			processes. Use Netscape with "foseoc6" in the "Entry ID" field to verify 0 endpoints on RTS. Use "ps -ef" to check for undesirable processes. Restart RTS.			
1.020	EOC	Leave Data Server and Real Time Server windows open to view statuses.				4/9/97
1.021	EOC	If the console will be used as a User workstation, close Netscape.	Warning: Netscape and the Event_Display window can not be open at the same time (12/05/96).			4/9/97
1.022	UWS	Log onto an EOC User Work Station (preferably non-msseoc2). Enter your user name. Enter your password.	UNIX Terminal window(s) open.Note: The User station can be brought up at the same time as the Real Time Server. However this makes the endpoint count via Netscape a bit more difficult for use to double-check proper startup. Patience is a virtue.			4/9/97
1.023	UWS	Change directory and check for live processes. test (or cd /fos/test/am1/scripts/setup) ps -ax	Current processes will be displayed along with owner. There should be no undesirable processes. If so, run MyKill as owner of processes. 'Kill -9' is a last resort.Use "ps -ax" on SUN.			4/9/97
1.024	UWS	Source the	The script will take 3 - 5			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		A2_UserStationStartup shell script from directory: /fos/test/am1/scripts/setup. source A2_UserStationStartup	minutes to complete.The following six planning and scheduling windows will open: -Load Generator -Activity Definer -BAP Definer -Load_Manager -EOS Timeline -General Scheduler.A Control Window will open last.Netscape endpoint count at this point is 57.			
1.025	UWS	Iconize the 6 planning and scheduling windows.	If there are not 6 planning and scheduling icons and the Control Window, first wait a little longer; while waiting check the number of processes on the user station via netscape (enter console name in "Entry ID" field. Correct number of user station endpoints is 8)If unsuccessful startup, type MyKill, in user Station's UNIX window, kill undesirable processes, and restart user station only. If still unsuccessful call for help, you'll probably perform a complete shutdown and restart!			4/9/97
1.026	UWS	Bring up Event_Display window. Click on "Tools..." button in Control	Event_Display may take a few minutes to appear.			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		Window, select Event_Display, and OK.				
1.027	UWS	Issue the ECL directive to connect to string 100: STRING CONNECT STRING=100 TLMTY PE=ALL CONFIG=MIRROR	Event message: "Successfully connected to String 100."Approximately a 7 minute wait.			4/9/97
1.028	UWS	From a UNIX window, different from the window used for User startup, run the SI&T userstation configuration recording script: /home/ivvtest3/scripts/tconf ig.scr	This can be done while waiting for the string to connect!Creates a file called testconfig.			4/9/97
1.029	UWS	Record the system configuration on the execution cover sheet.	System configuration recorded (while waiting for the string to connect).			4/9/97
1.030	UWS	Enable telemetry data archiving. Note: Release A: Archiving is already enabled. Release B: The ECL directive ARCHIVE will control the archiving modes: ARCHIVE TLM =ENABLE <tlm TYPE>	For Release A, no event message is expected. For Release B, an event message stating that telemetry archiving is enabled.			4/9/97
2.001	EOC	Click the INGEST button in the Load Manager window	LOAD INGEST window is displayed			4/9/97
2.002	EOC	Type the source directory in the Filter box /fos/test/am1/loadcontents/	The available microprocessor load contents files are displayed			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		* and click the Filter button				
2.003	EOC	Select the AM1_MPR_MIS_BUT_8_SARA.cnt microprocessor load file to ingest and click OK	Microprocessor load filename appears in the Local list section of the Load Manager window			4/9/97
2.004	EOC	Select the AM1_MPR_MIS_BUT_8_SARA.cnt file in the Local list section of the Load Manager window, and click the Validate button on the Load Manager window	Event Display indicates that the validation is complete			4/9/97
2.005	EOC	Select the AM1_MPR_MIS_BUT_8_SARA.cnt file in the Local list section of the Load Manager window, and click the Generate button on the Load Manager window	LOAD GENERATOR window is displayed with the Load name of AM1_MPR_MIS_BUT_8_SARA.cnt and the Load type of MPR and the Destination of MIS			4/9/97
2.006	EOC	Click on the Select Time button	Pair Time Selector window is displayed			4/9/97
2.007	EOC	Enter Stop: 1999/174<return>03:00:00.000<return> Start: 1999/174<return>02:00:00.000<return>	Absolute Stop Time: 1999/174 03:00:00Absolute Start Time: 1999/174 02:00:00			4/9/97
2.008	EOC	Click OK	Pair Time Selector window is no longer displayed, Start and Stop times are displayed on the LOAD GENERATOR window			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
2.009	EOC	Enter Start Location: 10 Size: 1000 Click on the End Location box Enter Description: EOC3 FR TEST	Start Location: 10Size: 1000End Location: 1009 should appear automatically after clicking on the boxDescription: EOC3 FR TEST			4/9/97
2.010	EOC	Click OK	Event Display indicates the load generation is complete and the Status Message in the Load Manager window indicates that the load generation is complete			4/9/97
2.011	EOC	Verify the AM1_MPR_MIS_BUT_8_SARA_01_OF_01.upl load filename appears in the Catalogue list on the Load Manager window				4/9/97
2.012	EOC	Verify the MPR load contents file (AM1_MPR_MIS_BUT_8_SARA.cnt) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.013	EOC	Verify the MPR load image file (AM1_ MPR_ MIS_BUT_8_SARA_01_OF_01.img) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.014	EOC	Verify the MPR load uplink file (AM1_ MPR_	Use offline analysis to check format			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		MIS_BUT_8_SARA_01_ OF_01.upl) is in the /fos/test/am1/loads directory and is of the correct format				
2.015	EOC	Verify the MPR load report file (AM1_MPR_ MIS_BUT_8_SARA.rpt) is in the /fos/test/am1/reports directory and is of the correct format	Use offline analysis to check format			4/9/97
2.016	EOC	Copy the files noted in steps 12-15 to another directory for offline analysis: cp <filename> /home/ivvtest5				4/9/97
2.017	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * from fos_load_cat >go	Verify the microprocessor load information is in the fos_load_cat table, then type >exitto exit Sybase			4/9/97
2.018	EOC	Click the INGEST button in the Load Manager window	LOAD INGEST window is displayed			4/9/97
2.019	EOC	Type the source directory in the Filter box /fos/test/am1/loadcontents/ * and click the Filter button	The available microprocessor load contents files are displayed			4/9/97
2.020	EOC	Select the AM1_MPR_MIS_CHECK _SUM_SAMPLE_SARA.c nt microprocessor load file	Microprocessor load filename appears in the Local list section of the Load Manager window			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		to ingest and click OK				
2.021	EOC	Select the AM1_MPR_MIS_CHECK_SUM_SAMPLE_SARA.cnt file in the Local list section of the Load Manager window, and click the Validate button on the Load Manager window	Event Display indicates that the validation is complete			4/9/97
2.022	EOC	Select the AM1_MPR_MIS_CHECK_SUM_SAMPLE_SARA.cnt file in the Local list section of the Load Manager window, and click the Generate button on the Load Manager window	LOAD GENERATOR window is displayed with the Load name of AM1_MPR_MIS_CHECK_SUM_SAMPLE_SARA.cnt and the Load type of MPR and the Destination of MIS			4/9/97
2.023	EOC	Click on the Select Time button	Pair Time Selector window is displayed			4/9/97
2.024	EOC	Enter Stop: 1999/174<return>04:00:00.000<return> Start: 1999/174<return>03:10:00.000<return>	Absolute Stop Time: 1999/174 04:00:00Absolute Start Time: 1999/174 03:10:00			4/9/97
2.025	EOC	Click OK	Pair Time Selector window is no longer displayed, Start and Stop times are displayed on the LOAD GENERATOR window			4/9/97
2.026	EOC	Enter Start Location: 100 Size: 150 Click on the End Location box Enter Description: EOC3 FR	Start Location: 100Size: 150End Location: 249 should appear automatically after clicking on the			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		TEST	boxDescription: EOC3 FR TEST			
2.027	EOC	Click OK	Event Display indicates the load generation is complete and the Status Message in the Load Manager window indicates that the load generation is complete			4/9/97
2.028	EOC	Verify the AM1_MPR_MIS_CHECK_SUM_SAMPLE_SARA_01_OF_01.upl load filename appears in the Catalogue list on the Load Manager window				4/9/97
2.029	EOC	Verify the MPR load contents file (AM1_MPR_MIS_CHECK_SUM_SAMPLE_SARA.cnt) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.030	EOC	Verify the MPR load image file (AM1_MPR_MIS_CHECK_SUM_SAMPLE_SARA_01_OF_01.img) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.031	EOC	Verify the MPR load uplink file	Use offline analysis to check format			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		(AM1_MPR_MIS_CHECK_SUM_SAMPLE_SARA_01_OF_01.upl) is in the /fos/test/am1/loads directory and is of the correct format				
2.032	EOC	Verify the MPR load report file (AM1_MPR_MIS_CHECK_SUM_SAMPLE_SARA.rpt) is in the /fos/test/am1/reports directory and is of the correct format	Use offline analysis to check format			4/9/97
2.033	EOC	Copy the files noted in steps 29-32 to another directory for offline analysis: cp <filename> /home/ivvtest5				4/9/97
2.034	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * from fos_load_cat >go	Verify the microprocessor load information is in the fos_load_cat table, then type >exitto exit Sybase			4/9/97
2.035	EOC/ SDVF	Ingest and validate a flight software load contents file, and generate the flight software uplink load, the load report, and the load image file		Release B		4/9/97
2.036	EOC	Bring up the Table Load Builder window: click on	Table Load Builder window is displayed			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		the Tools button on the Control window, select Table Load Builder				

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		File menu item in the Table Load Builder window	Table Load Builder window indicates a status of Validation Complete			
2.044	EOC	Select Generate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of Validation Complete, Table load generation complete, and Generate Load Successful; Event Display indicates load generation started and completed			4/9/97
2.045	EOC	Verify the table load contents file (AM1_TBL_ESA_OFFSET_TBL.cnt) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.046	EOC	Verify the table load image file (AM1_TBL_ESA_OFFSET_TBL_01_OF_01. img) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.047	EOC	Verify the table load uplink file (AM1_TBL_ESA_OFFSET_TBL_01_OF_01.upl) is in the /fos/test/am1/loads directory and is of the	Use offline analysis to check format			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		correct format				
2.048	EOC	Verify the table load report file (AM1_TBL_ESA_OFFSET_TBL.rpt) is in the /fos/test/am1/reports directory and is of the correct format	Use offline analysis to check format			4/9/97
2.049	EOC	Copy the files noted in steps 45-48 to another directory for offline analysis: cp <filename> /home/ivvtest5				4/9/97
2.050	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * from fos_load_cat >go	Verify the table load information is in the fos_load_cat table, then type >exitto exit Sybase			4/9/97
2.051	EOC	Select New from the File menu item in the Table Load Builder window	Table Template Selection window is displayed			4/9/97
2.052	EOC	Enter the spacecraft AM1 and the subsystem ASTER, select the template ESA_OFFSET_TBL, and click OK	Table Template Selection window is no longer displayed and the Table Load Builder window contains the table template (8 fields of default values)			4/9/97
2.053	EOC	Enter the Table Name of ESA_OFFSET_TBL_INVALID				4/9/97
2.054	EOC	Click on the Select Time	Pair Time Selector window			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		button	is displayed			
2.055	EOC	Enter Stop: 1999/174<return>03:00:00 .000<return> Start: 1999/174<return>02:00:00 .000<return>	Absolute Stop Time: 1999/174 03:00:00Absolute Start Time: 1999/174 02:00:00			4/9/97
2.056	EOC	Click OK	Pair Time Selector window is no longer displayed, Start and Stop times are displayed in the Uplink Time Period portion of the Table Load Builder window			4/9/97
2.057	EOC	Modify the default parameters with the following values: Field 2: 2.000000 Field 6: 4098 Field 7: 10				4/9/97
2.058	EOC	Select Validate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of 2 ESA1 H course bias offset: ERROR: Invalid Data Entry7 ESA1 H course bias offset: ERROR: Invalid Data Entry			4/9/97
2.059	EOC	Select Generate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of ERROR: Unable to Generate Load. Invalid Data.			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
2.060	EOC	Modify the default parameters with the following values: Field 7: -2				4/9/97
2.061	EOC	Select Validate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of 2 ESA1 H course bias offset: ERROR: Invalid Data Entry			4/9/97
2.062	EOC	Modify the default parameters with the following values: Field 2: 0.000000				4/9/97
2.063	EOC	Select Validate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of Validation Complete			4/9/97
2.064	EOC	Select Generate from the File menu item in the Table Load Builder window	Bottom portion of the Table Load Builder window indicates a status of Validation Complete, Table load generation complete, and Generate Load Successful; Event Display indicates load generation started and completed			4/9/97
2.065	EOC	Verify the table load contents file (AM1_TBL_ESA_OFFSET_TBL_INVALID.cnt) is in the /fos/test/am1/loads	Use offline analysis to check format			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		directory and is of the correct format				
2.066	EOC	Verify the table load image file (AM1_TBL_ESA_OFFSET_TBL_INVALID_01_OF_01. img) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.067	EOC	Verify the table load uplink file (AM1_TBL_ESA_OFFSET_TBL_INVALID_01_OF_01.upl) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.068	EOC	Verify the table load report file (AM1_TBL_ESA_OFFSET_TBL_INVALID.rpt) is in the /fos/test/am1/reports directory and is of the correct format	Use offline analysis to check format			4/9/97
2.069	EOC	Copy the files noted in steps 65-68 to another directory for offline analysis: cp <filename> /home/ivvtest5				4/9/97
2.070	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba	Verify the table load information is in the fos_load_cat table, then			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		>use am1_fos_ops >go >select * from fos_load_cat >go	type >exitto exit Sybase			
2.071	EOC	Select New from the File menu item in the Table Load Builder window	Table Template Selection window is displayed			4/9/97
2.072	EOC	Enter the spacecraft AM1 and the subsystem ASTER, select the template ESA_PARAMS_TBL, and click OK	Table Template Selection window is no longer displayed and the Table Load Builder window contains the table template (9 fields of default values)			4/9/97
2.073	EOC	Click on the Select Time button	Pair Time Selector window is displayed			4/9/97
2.074	EOC	Enter Stop: 1999/174<return>05:00:00 .000<return> Start: 1999/174<return>04:00:00 .000<return>	Absolute Stop Time: 1999/174 05:00:00Absolute Start Time: 1999/174 04:00:00			4/9/97
2.075	EOC	Click OK	Pair Time Selector window is no longer displayed, Start and Stop times are displayed in the Uplink Time Period portion of the Table Load Builder window			4/9/97
2.076	EOC	Modify the default parameters with the following values: Field 2: 62 Field 4: 8 Field 5: 75				4/9/97
2.077	EOC	Select Generate from the File menu item in the Table	Bottom portion of the Table Load Builder			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		Load Builder window	window indicates a status of Validation Complete, Table load generation complete, and Generate Load Successful; Event Display indicates load generation started and completed			
2.078	EOC	Verify the table load contents file (AM1_TBL_ESA_ PARAMS_TBL.cnt) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.079	EOC	Verify the table load image file (AM1_TBL_ESA_PARA MS_TBL_01_OF_01. img) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.080	EOC	Verify the table load uplink file (AM1_TBL_ESA_PARA MS_TBL_01_OF_01.upl) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.081	EOC	Verify the table load report file (AM1_TBL_ESA_PARA MS_TBL.rpt) is in the	Use offline analysis to check format			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		/fos/test/am1/reports directory and is of the correct format				
2.082	EOC	Copy the files noted in steps 78-81 to another directory for offline analysis: cp <filename> /home/ivvtest5				4/9/97
2.083	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * from fos_load_cat >go	Verify the table load information is in the fos_load_cat table, then type >exitto exit Sybase			4/9/97
2.084	EOC	Bring down the Table Load Builder window: click on the File menu item and select Quit	Table Load Builder window is no longer displayed			4/9/97
2.085	EOC	Verify the AM1_RTS_025_test1 file is located in the /home/ivvtest5/sarastuff/formalrun/RTSfiles directory: cd /home/ivvtest5/sara/formalrun/RTSfiles more AM1_RTS_025_test1	The AM1_RTS_025_test1 file contains less than 16 commands			4/9/97
2.086	EOC	From the terminal window where the User Station was brought up, run the CreateRTS script: a. setenv FUILOADDIR /fos/test/am1/loadcontents	nothingnothingnothingnothingTerminal window indicates a status of request generated, Event Display indicates a status of RTS load generation			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		b. source /fos/test/am1/scripts/setup FosEnvVars c. setenv SCRIPT UserStation d. cd /fos/test/am1/bin/sun_sparc_5-4 e. CreateRTS /home/ivvtest5/sara/formalrun/RTSfiles AM1_RTS_025_test1 025	started and completed			
2.087	EOC	Verify the RTS load contents file (AM1_RTS_025_test1.cnt) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.088	EOC	Verify the RTS load image file (AM1_RTS_025_test1.img) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.089	EOC	Verify the RTS load uplink file (AM1_RTS_025_test1.upl) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.090	EOC	Verify the RTS load report file (AM1_RTS_025_test1.rpt) is in the /fos/test/am1/reports directory and is of the	Use offline analysis to check format			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		correct format				
2.091	EOC	Copy the files noted in steps 87-90 to another directory for offline analysis: cp <filename> /home/ivvtest5				4/9/97
2.092	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * from fos_load_cat >go	Verify the table load information is in the fos_load_cat table, then type >exitto exit Sybase			4/9/97
2.093	EOC	Verify the AM1_RTS_025_test2 file is located in the /home/ivvtest5/sarastuff/formalrun/RTSfiles directory: cd /home/ivvtest5/sara/formalrun/RTSfiles more AM1_RTS_025_test2	The AM1_RTS_025_test2 file contains exactly 16 commands			4/9/97
2.094	EOC	From the terminal window where the User Station was brought up, run the CreateRTS script: a. setenv FUILOADDIR /fos/test/am1/loadcontents b. source /fos/test/am1/scripts/setupFosEnvVars c. setenv SCRIPT UserStation d. cd /fos/test/am1/bin/sun_sparc_5-4 e. CreateRTS	nothingnothingnothingnothingTerminal window indicates a status of request generated, Event Display indicates a status of request completed			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		/home/ivvtest5/sara/formalrun/RTSfiles AM1_RTS_025_test2 025				
2.095	EOC	Verify the RTS load contents file (AM1_RTS_025_test2.cnt) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.096	EOC	Verify the RTS load image file (AM1_RTS_025_test2.img) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.097	EOC	Verify the RTS load uplink file (AM1_RTS_025_test2.upl) is in the /fos/test/am1/loads directory and is of the correct format	Use offline analysis to check format			4/9/97
2.098	EOC	Verify the RTS load report file (AM1_RTS_025_test2.rpt) is in the /fos/test/am1/reports directory and is of the correct format	Use offline analysis to check format			4/9/97
2.099	EOC	Copy the files noted in steps 95-98 to another directory for offline analysis: cp <filename> /home/ivvtest5				4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
2.100	EOC	Verify the load catalog is updated using Sybase: %isql -Ufos_dba -Pfos_dba >use am1_fos_ops >go >select * from fos_load_cat >go	Verify the table load information is in the fos_load_cat table, then type >exitto exit Sybase			4/9/97
2.101	EOC	Verify the AM1_RTS_025_test3 file is located in the /home/ivvtest5/sarastuff/formalrun/RTSfiles directory: cd /home/ivvtest5/sara/formalrun/RTSfiles more AM1_RTS_025_test3	The AM1_RTS_025_test3 file contains more than 16 commands			4/9/97
2.102	EOC	From the terminal window where the User Station was brought up, run the CreateRTS script: a. setenv FUILOADDIR /fos/test/am1/loadcontents b. source /fos/test/am1/scripts/setupFosEnvVars c. setenv SCRIPT UserStation d. cd /fos/test/am1/bin/sun_sparc_5-4 e. CreateRTS /home/ivvtest5/sara/formalrun/RTSfiles AM1_RTS_025_test3 025	nothingnothingnothingnothingTerminal window indicates a status of no more than 16 commands are permitted in an rts load; no load files are generated			4/9/97
3.001	EOC	Collect all necessary screen snaps, dumps, etc. needed for post-test analysis and				4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		verification				
3.002	UWS	Bring down User Work Stations (UWS). In the UNIX window where the user station was initiated, enter: MyKill				4/9/97
3.003	UWS	After UWS killed, check for undesirable processes. ps -ax				4/9/97
3.004	UWS	Open any iconized processes, or pages that didn't close.....				4/9/97
3.005	UWS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill "pid" for each undesirable process. Type ps -ef again to verify.	Notes: The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97
3.006	UWS	Bring up the FOS Homepage on Netscape (May be already open in mss2eoc SUN room 2): netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape's bookmarks. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			4/9/97
3.007	UWS	Verify no endpoints exist on UWS: Click on	"Total matches = 0".Note: If any endpoints exist			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		Nameserver Database Click on Clear Form In EntryID field enter: fose#oe (where # is UWS number) Click on Submit.	recheck for live processes/endpoints on the UWS using ps -ax . They must all be removed/killed prior to system startup.			
3.008	RTS	Bring down Real Time Server (foseoc6). In the UNIX window where the RTS was initiated, enter: MyKill	Wait 1-5 minutes			4/9/97
3.009	RTS	After RTS killed, check for undesirable processes. ps -ef				4/9/97
3.010	RTS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill "pid" for each undesirable process. Type ps -ef again to verify.	Notes: The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97
3.011	RTS	Bring up the FOS Homepage on Netscape (May be already open in mss2eoc SUN room 2): netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape's bookmarks. If no bookmark enter the url:http://198.118.199.20/FosDbHome.html			4/9/97
3.012	RTS	Verify no endpoints exist	"Total matches = 0".Note:			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
		on RTS: Click on Nameserver Database Click on Clear Form In EntryID field enter: foseoc6 Click on Submit.	If any endpoints exist recheck for live processes/endpoints on the Real Time Server using ps -ef . They must all be removed/killed prior to system startup.			
3.013	DS	Bring down Data Server (foseoc7). In the UNIX window where the RTS was initiated, enter: MyKill	Wait 1-5 minutes.			4/9/97
3.014	DS	After DS killed, check for undesirable processes. ps -ef				4/9/97
3.015	DS	Kill all undesirable processes - Processes with a /fos/test/am1/bin/... prefix and owner is not "root" (there may be others). Initially, as process owner, use MyKill to shutdown the process. If processes are still active use kill -USR1 "pid" for each active process, then use kill -9 "pid" for each undesirable process. Type ps -ef again to verify. Kill "pid" ????	Notes: "kill -USR1" saves data created since the Data Server was brought up. Use "kill -9" only after "kill -USR" on the Data Server or Real Time Server; or data may be lost.The user may need to be logged in as the owner of the processes in order to kill them.			4/9/97
3.016	DS	Bring up the FOS Homepage on Netscape (May be already open in mss2eoc SUN room 2): netscape	FOS Database Access Page displayed. If not automatically displayed, check Netscape's bookmarks. If no			4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
			bookmark enter the url:http://198.118.199.20/FosDbHome.html			
3.017	DS	Verify no endpoints exist on DS: Click on Nameserver Database Click on Clear Form In EntryID field enter: foseoc7 Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the Data Server using ps -ef . They must all be removed/killed prior to next system startup.			4/9/97
3.018	EOC	Verify no endpoints exist on FOS: Click on Nameserver Database Click on Clear Form Click on Submit.	"Total matches = 0".Note: If any endpoints exist recheck for live processes/endpoints on the User Work Stations, Real Time Server, and Data Server using ps -ef or ps -ax. All processes must be removed/killed prior to system startup.			4/9/97
4.001		Verify EOC-3020#A		NCR 4757, can't ingest ASCII loads, only binary ALSO will be tested with an IST in ICT13	EOC-3020#A,	4/9/97
4.002		Verify EOC-3030#A		NCR 4757, can't ingest ASCII loads, only binary ALSO NCR 4758, binary load information not validated, i.e. source, size, destination ALSO will be tested with an IST in ICT13	EOC-3030#A,	4/9/97

Step ID	Station	Actions	Results	Comments	Verified Reqs.	Last Modified
4.003		Verify EOC-3050#A			EOC-3050#A,	4/9/97
4.004		Verify EOC-3090#A		NCR 4456, RTS load time tag incorrect ALSO NCR 4757, can't ingest ASCII loads, only binary ALSO NCR 4734, CMS-10125 req. incorrect	EOC-3090#A,	4/9/97
4.005		Verify EOC-3160#A			EOC-3160#A,	4/9/97
4.006		Verify EOC-3210#A			EOC-3210#A,	4/9/97
4.007		Verify EOC-4010#A		NCR 4456, RTS load time tag incorrect	EOC-4010#A,	4/9/97